JVC

SERVICE MANUAL

FLAT COLOR TELEVISION

AV-29VT11 /P
AV-29VT31 /P
AV-29VT11 /T

BASIC CHASSIS
CH3

RM-C1330-1H
[AV-29VT31/P]

RM-C1331-1H
[AV-29VT11/P]
[AV-29VT11/T]

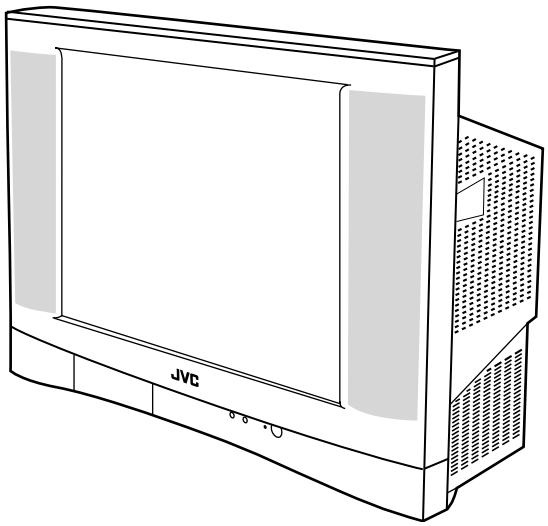


TABLE OF CONTENTS

1 **PRECAUTION** 1-3
2 **SPECIFIC SERVICE INSTRUCTIONS** 1-4
3 **DISASSEMBLY** 1-7
4 **ADJUSTMENT** 1-14
5 **TROUBLESHOOTING** 1-31

COPYRIGHT © 2003 VICTOR COMPANY OF JAPAN, LTD.

No.52195
2003/10

SPECIFICATION

Items		Contents		
		AV-29VT11/P	AV-29VT31/P	AV-29VT11/T
Dimentions (W x H x D)		81.2cm x 58.4cm x 52.1cm		
Mass		43.5kg	43.5kg 2.4kg (Bass Blaster Unit)	43.5kg
TV RF System		M		
Color System	TV Mode	NTSC3.58		
	Video Mode	NTSC3.58 / NTSC4.43 / PAL		
Stereo System		MTS (Multi-Channel Television Sound)		
Receiving Frequency	VHF Low	46.25MHz ~ 140.25MHz (AS0 ~ S6)		
	VHF High	147.25MHz ~ 423.25MHz (S7 ~ S36)		
	UHF	431.25MHz ~ 863.25MHz (S37 ~ CHINA57)		
	CATV	Mid : X ~ Z, S1 ~ S10		
		Super : S11 ~ S20		
		Hyper : S21 ~ S41		
Intermediate Frequency	VIF	38.0MHz		
	SIF	33.5MHz(4.5MHz)		
Color Sub Carrier Frequency		3.58MHz/4.43MHz(NTSC), 4.43MHz(PAL)		
Aerial Input Terminal		75Ω unbalanced		
Power Input		AC110V ~ AC240V, 50Hz/60Hz		
Power Consumption		190W(Max.)/145W(Avg.)	212W(Max.)/145W(Avg.)	190W(Max.)/145W(Avg.)
Picture Tube		Visible size: 67.6cm (Diagonal) / 54.1cm x 40.6cm (H x V)		
High Voltage		32kV -1.5kV / +1.0kV (at zero beam current)		
Speaker		6.5cm x 13cm, Oval type x 2	6.5cm x 13cm, Oval type x 2 Ø13cm (Bass Blaster Unit)	6.5cm x 13cm, Oval type x 2
Audio Output		10W + 10W	7W + 7W +13W	10W + 10W
Video / Audio Input (1/2/3)	S-Video (1)	Mini-DIN 4pin x 1		
		Y : 1V(p-p), positive (negative sync provided), 75Ω		
		C : 0.286V(p-p) (Burst signal), 75Ω		
	Video (1/2/3)	1V(p-p), negative sync, 75Ω, RCA pin jack x 3		
	Audio (1/2/3)	500mV(rms) (-4dBs), high impedance, RCA pin jack x 6		
	Component (2)	RCA pin jack x 3		
		Y : 1V(p-p), positive (negative sync), 75Ω		
		C_B/C_R : 0.7V(p-p), 75Ω		
Video / Audio Output	Video	1V(p-p), 75Ω, RCA pin jack x 1		
	Audio	500mV(rms) (-4dBs), Low inpedance (400Hz when modulated 100%), RCA pin jack x 2		
Headphone		3.5mm stereo mini jack x 1		
Remote Control Unit		RM-C1331-1H (AA/R06/UM-3 battery x 2)	RM-C1330-1H (AA/R06/UM-3 battery x 2)	RM-C1331-1H (AA/R06/UM-3 battery x 2)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.).
If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

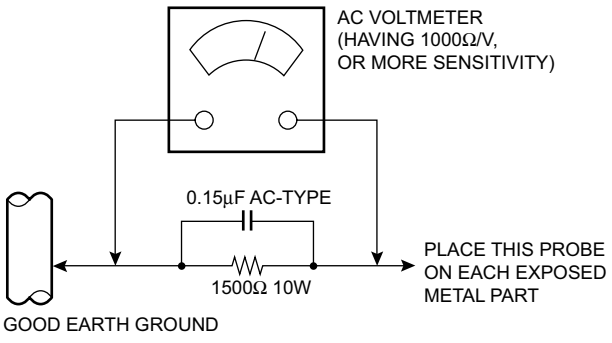
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check**
(Safety for Electrical Shock Hazard)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

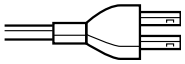
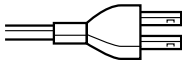


SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enables use of an interactive on-screen control.
- Pure flat CRT produces fine textured picture in every detail.
- Wide range voltage (110V ~ 240V) for AC power input.
- With AUDIO/VIDEO/S-VIDEO/COMPONENT input terminals.
- I^2C bus control utilizes single chip ICs.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in DIGITAL ECO MODE (ECONOMY, ECOLOGY).
  In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Built-in OFF TIMER & RETURN +.

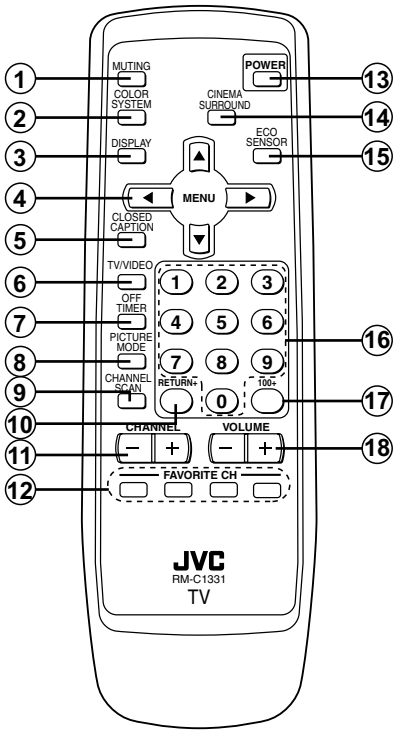
2.2 MAIN DIFFERENCE LIST

⚠	Items	AV-29VT11/P	AV-29VT31/P	AV-29VT11/T
⚠	MAIN PWB ASS'Y	SCH-1176A-H2	SCH-1178A-H2	SCH-1177A-H2
⚠	CRT SOCKET PWB ASS'Y	SCH-3006A-H2	←	SCH-3009A-H2
	BASS BLASTER	None	BASS BLASTER UNIT	None
	AUDIO OUTPUT	10W + 10W	7W + 7W + 13W	10W + 10W
	REMOTE CONTROL UNIT	RM-C1331-1H	RM-C1330-1H	RM-C1331-1H
⚠	POWER CORD	QMPR380-165-K2 	←	QMPR520-170-JC 
	POWER CONSUMPTION	190W(Max.) / 145W(Avg.)	212W(Max.) / 145W(Avg.)	190W(Max.) / 145W(Avg.)

2.3 FUNCTIONS

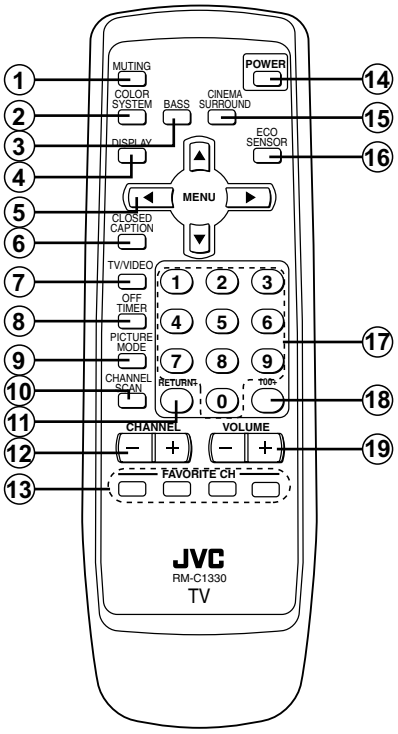
■ REMOTE CONTROL UNIT

RM-C1331-1H [AV-29VT11/P, AV-29VT11/T]



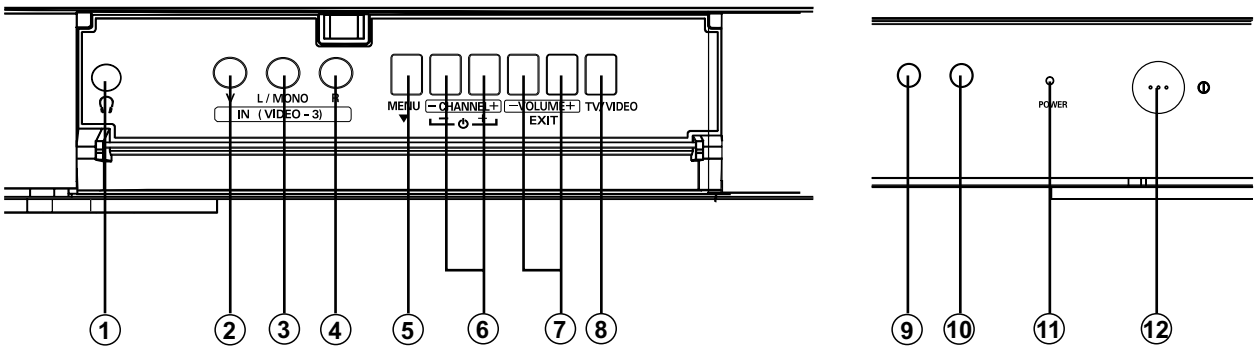
① MUTING key
② COLOR SYSTEM key
③ DISPLAY key
④ MENU (▲/▼, ◀/▶) keys
⑤ CLOSED CAPTION key
⑥ TV/VIDEO key
⑦ OFF TIMER key
⑧ PICTURE MODE key
⑨ CHANNEL SCAN key
⑩ RETURN + key
⑪ CHANNEL (-/+) keys
⑫ FAVORITE CH keys
⑬ POWER key
⑭ CINEMA SURROUND key
⑮ ECO SENSOR key
⑯ Number keys
⑰ 100+ key
⑱ VOLUME (-/+) keys

RM-C1330-1H [AV-29VT31/P]



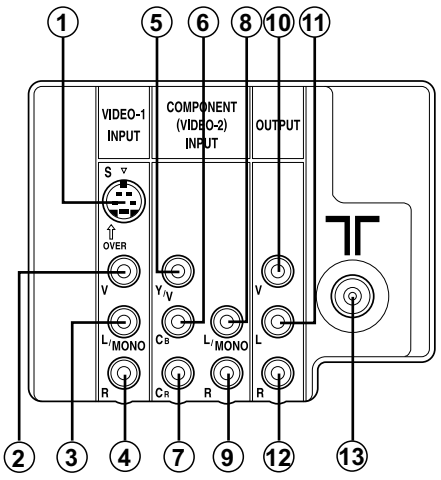
① MUTING key
② COLOR SYSTEM key
③ BASS key
④ DISPLAY key
⑤ MENU (▲/▼, ◀/▶) keys
⑥ CLOSED CAPTION key
⑦ TV/VIDEO key
⑧ OFF TIMER key
⑨ PICTURE MODE key
⑩ CHANNEL SCAN key
⑪ RETERN + key
⑫ CHANNEL (-/+) keys
⑬ FAVORITE CH keys
⑭ POWER key
⑮ CINEMA SURROUND key
⑯ ECO SENSOR key
⑰ Number keys
⑱ 100+ key
⑲ VOLUME (-/+) keys

■ FRONT PANEL CONTROLS

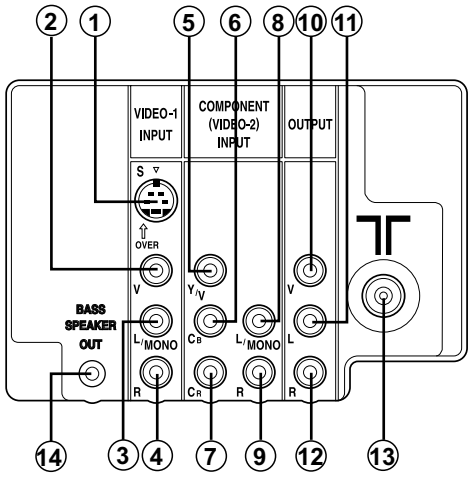


① HEADPHONE jack	⑦ VOLUME (-/+) buttons
② IN (VIDEO-3) : VIDEO	⑧ TV/VIDEO buttons
③ IN (VIDEO-3) : AUDIO L/MONO	⑨ Remote control sensor
④ IN (VIDEO-3) : AUDIO R	⑩ ECO sensor
⑤ MENU (▼) button	⑪ POWER lamp
⑥ CHANNEL (-/+) buttons	⑫ MAIN POWER button

■ REAR TERMINAL



[AV-29VT11/P, AV-29VT11/T]



[AV-29VT31/P]

VIDEO-1 INPUT TERMINAL

① S-VIDEO
② VIDEO
③ AUDIO L/MONO
④ AUDIO R

OUTPUT TERMINAL

⑩ VIDEO
⑪ AUDIO L
⑫ AUDIO R

COMPONENT (VIDEO-2) INPUT TERMINAL

⑤ Y/VIDEO
⑥ C_B
⑦ C_R
⑧ AUDIO L/MONO
⑨ AUDIO R

⑬ Antenna socket
⑭ BASS SPEAKER OUT

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE TWIN PORT BASS BLASTER UNIT [AV-29VT31/P]

- Unplug the power supply cord.
  (1) Disconnect the TWIN PORT BASS BLASTER UNIT's cord from the rear of the TV set.
  (2) Remove the TWIN PORT BASS BLASTER UNIT by pulling it upwards.

NOTE:
After removing the TWIN PORT BASS BLASTER UNIT, proceed to the following procedure.

3.1.2 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 16 screws **[A]** as shown in Fig.1.
  (2) Withdraw the REAR COVER toward you.

CAUTION:
When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.1.3 REMOVING THE CHASSIS (CHASSIS BASE AND CONTROL BASE)

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws **[B]** under the CHASSIS from the front cabinet as shown in Fig.1.
  (2) Withdraw the CHASSIS backward.
  (If necessary, take off the wire clamp, connector's etc.)

NOTE:
When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

3.1.4 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  (1) Remove the 4 screws **[C]** as shown in Fig.1.
  (2) When you pull out the AV TERMINAL BOARD in the direction of arrow **[D]** as shown in Fig.1, it can be removed.

3.1.5 REMOVING THE CONTROL BASE

- Remove the REAR COVER.
- Remove the CHASSIS.
  (1) While pushing down the 2 claws **[E]** as shown in Fig. 2 and pull out the CONTROL BASE in the direction of arrow **[F]** as shown in Fig. 2, the control base can be removed.
  (If necessary, take off the wire, connector's etc.)

3.1.6 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[G]** as shown in Fig.1.
  (2) Withdraw the SPEAKER backward.
  (3) Follow the same steps when removing the other hand SPEAKER.

3.1.7 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
  (2) Erect the CHASSIS vertically so that you can easily check the back side of the MAIN PWB.

CAUTIONS:
- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.1.8 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

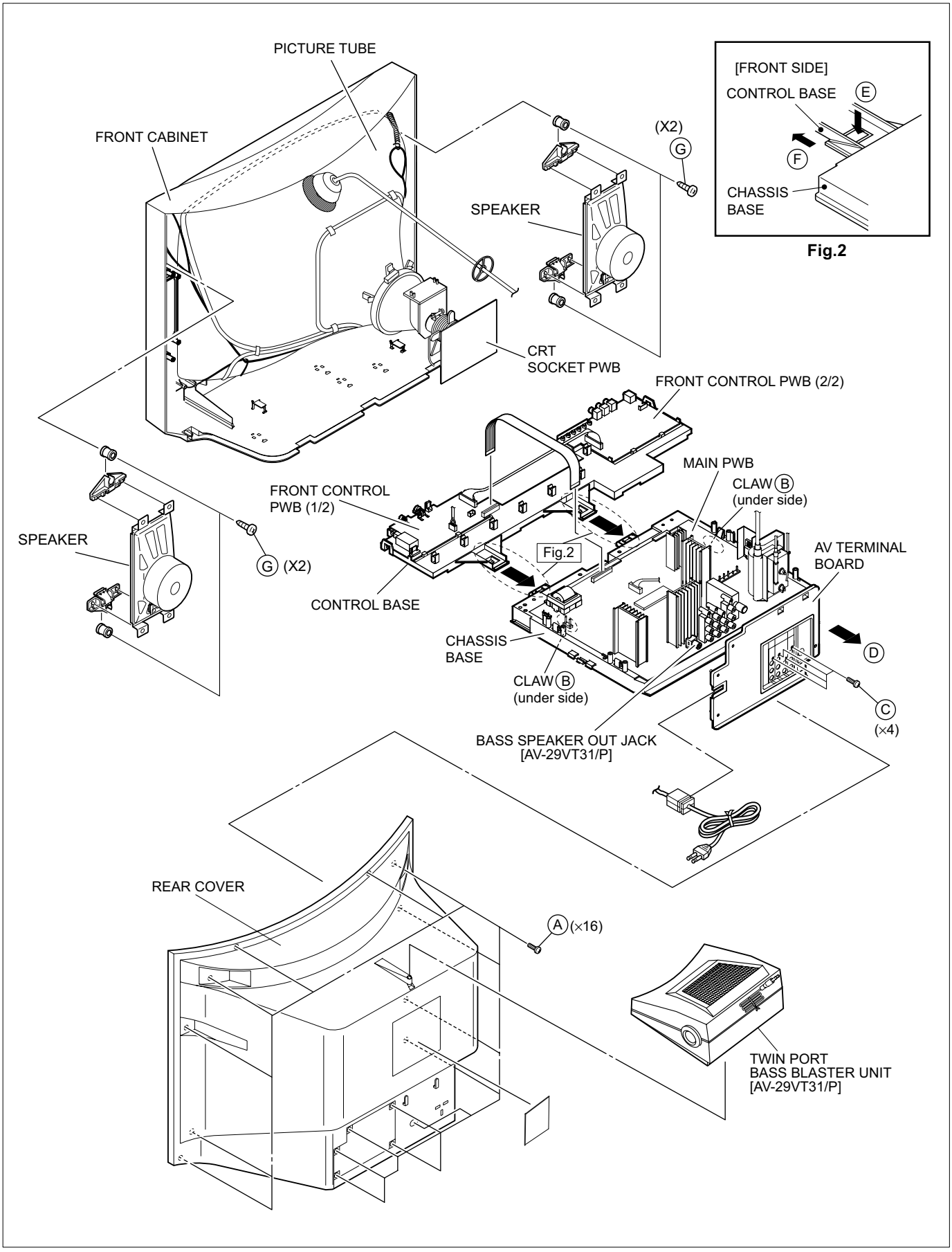

PICTURE TUBE
FRONT CABINET
SPEAKER
(X2)
G
CRT
SOCKET PWB
FRONT CONTROL PWB (2/2)
MAIN PWB
CLAW B
(under side)
FRONT CONTROL
PWB (1/2)
SPEAKER
G (X2)
Fig.2
AV TERMINAL
BOARD
CONTROL BASE
CHASSIS
BASE
D
CLAW B
(under side)
C
(×4)
BASS SPEAKER OUT JACK
[AV-29VT31/P]
REAR COVER
A (×16)
TWIN PORT
BASS BLASTER UNIT
[AV-29VT31/P]
[FRONT SIDE]
CONTROL BASE
E
F
CHASSIS
BASE

Fig.2

Fig. 1

3.2 REPLACEMENT OF MEMORY IC

3.2.1 MEMORY IC

This TV uses the following memory IC.

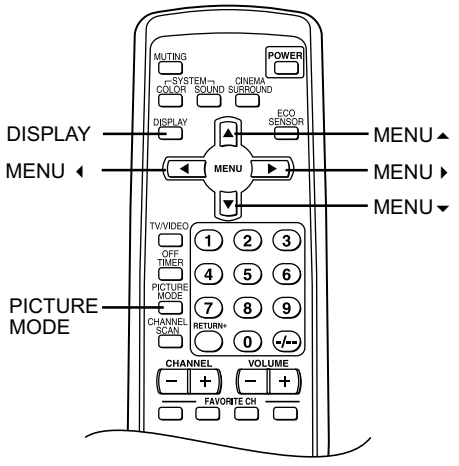
Memory IC: IC1702 on MAIN PW Board

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

3.2.2 PROCEDURE FOR REPLACING MEMORY IC

1. **Power off**
   Switch the power off and unplug the power cord from the wall outlet.
2. **Replacing the memory IC**
   Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.
3. **Power on**
   Plug the power cord into the wall outlet and switch the power on.
4. **Check and setting of SYSTEM CONSTANT SET:**
   (1) Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously. The SERVICE MENU screen will be displayed.(See Fig.1.)
   (2) In the SERVICE MENU, press the [DISPLAY] key and [PICTURE MODE] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)
   (3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table1.
   If the value is different, select the setting item with the MENU [▲]/[▼] key, and set the correct value with the MENU [◀]/[▶] key.
   (4) Press the [DISPLAY] key twice to return to the normal screen.
5. **Receive channel setting**
   Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).
6. **User setting**
   Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
   For setting, refer to the **OPERATING INSTRUCTIONS**.
7. **Setting of SERVICE MENU**
   Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".

NAME OF REMOTE CONTROL KEYS



SERVICE MENU

SERVICE MENU

1. IF 2. VC
3. DEF 4. VSM PRESET
5. PRESET 6. AUDIO
7. PLUG & PLAY (ON)

1-7 : SELECT DISPLAY : EXIT

******* **** ***** *****
**** **** *** ***

Fig. 1

SYSTEM CONSTANT-1

SYSTEM CONSTANT SET 1

COLOR SYSTEM	NTSC
COMB	NTSC
TILT	YES
SUPER BASS	NO
LANGUAGE	E/S/P

▲▼: SEL −+ : OPE DISP : EXIT

SYSTEM CONSTANT-2

SYSTEM CONSTANT SET 2

MSP	YES
B / B SOUND	NO
TUNER	MU
COLOR AUTO	NO

▲▼: SEL −+ : OPE DISP : EXIT

SYSTEM CONSTANT-3

SYSTEM CONSTANT SET 3

LOCK	LONG WAIT	: 001
	SHORT WAIT	: 002
	3D SURROUND	: YES
	AMP TUNER	: NO

▲▼: SEL −+ : OPE DISP : EXIT

SYSTEM CONSTANT-4

SYSTEM CONSTANT SET 4

COMPONENT	YES
16 : 9	YES
M.L. delete	YES

▲▼: SEL −+ : OPE DISP : EXIT

Fig. 2

3.2.3 FACTORY SETTING VALUE

■ SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value		
		AV-29VT11/P	AV-29VT31/P	AV-29VT11/T
COLOR SYSTEM	TRIPLE → NTSC	NTSC	←	←
COMB	NTSC → NO	NTSC	←	←
TILT	YES → NO	YES	←	←
SUPER BASS	YES → NO	NO	YES	NO
LANGUAGE	E/S/P → E	E/S/P	←	E
MSP	YES → NO	YES	←	←
B/B SOUND	YES → NO	NO	←	←
TUNER	MU → MA	MU	←	←
COLOR AUTO	YES → NO	NO	←	←
LOCK LONG WAIT	000 → 255	001	←	←
SHORT WAIT	000 → 255	002	←	←
3D SURROUND	YES → NO	YES	←	←
AMP TUNER	YES → NO	NO	←	←
COMPONENT	YES → NO	YES	←	←
16 : 9	YES → NO	YES	←	←
M.L. delete	YES → NO	YES	←	←

Table 1

■ **SETTING OF SWITCHES ON FRONT PANEL AND REMOTE CONTROL UNIT**

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
COLOR SYSTEM	NTSC
SOUND SYSTEM	M
PICTURE MODE (VSM)	BRIGHT
CINEMA SURROUND	OFF
SUPER BASS	ON [AV-29VT31/P]
CLOSED CAPTION	OFF (CC1/T1)
OFF TIMER	00
CHANNEL POSITION	CH-02

Table 2

■ **SETTING OF MENU SCREEN**

Setting item	Setting value
INPUT	TV
VNR	OFF
COMPRESS (16:9)	OFF
PICTURE TILT	00
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	VIDEO
AUTO CH PRESET	Refer to OPERATING INSTRUCTIONS
MANUAL CH PRESET	Refer to OPERATING INSTRUCTIONS
LANGUAGE	ENG
TINT	Center
COLOR	Center
BRIGHT	Center
PICTURE	Maximum
DETAIL	Center
BASS	Center
TREBLE	Center
BALANCE	Center
AI VOLUME	ON
FAVORITE CH RED	PR1
FAVORITE CH GREEN	PR2
FAVORITE CH YELLOW	PR3
FAVORITE CH BLUE	PR4
AI ECO SENSOR	OFF
AI ECO DISPLAY	ON

Table 3

■ **SERVICE MENU SETTING ITEMS**

Service menu	Setting item
1. IF	1. VCO 2. DELAY POINT
2. VC	1. CUTOFF(R/G) 2. DRIVE(R/G/B) 3. BRIGHT 4. PICTURE 5. COLOR 6. TINT 7. DETAIL 8. YDELAY **[Do not adjust]** 9. AMP T. SHARP
3. DEF	1. VER. SLOPE 2. VER. HEIGHT 3. VER. POSITION 4. VER. SCURVE 5. HOR. POSITION 6. HOR. WIDTH 7. EW-PIN 8. EW-TRAPEZ 9. UP CORNER 10. DW CORNER 11. HOR. PARALL 12. HOR. BOW 13. V. ZOOM
4. VSM PRESET **(BRIGHT/STANDARD/SOFT)** **[Do not adjust]**	1. TINT 2. COLOR 3. BRIGHT 4. PICTURE 5. DETAIL

Service menu	Setting item
5. PRESET **[Do not adjust]**	1. PSNS 2. ACL 3. MUS 4. MAT 5. FCO 6. BPS 7. IFLH 8. VID 9. STM 10. AFCW 11. VSW 12. FFI 13. AGC 14. CL 15. AKB 16. HBL 17. BKS 18. READ STATUS 19. VNR 20. PEAK 21. IVG 22. WPL 23. SOFT CLIPPER 24. IF PLL OFFSET 25. OVERSHOOT 26. HCO 27. HP2 28. AI VOLUME ADN 29. SUB BASS 30. SUB TREBLE 31. SUB TRIMMER 31. CCC LOOP 32. OSD BRIGHTNESS
6. AUDIO **[Do not adjust]**	1. STATUS 2. STANDARD SELECTION 3. FM PRESCALE
7. PLUG & PLAY (ON) **[Do not adjust]**	

Table 4

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

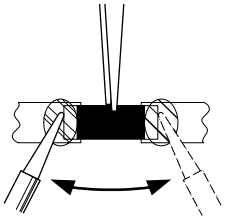
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

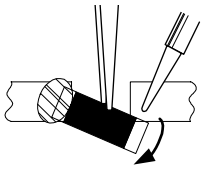
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

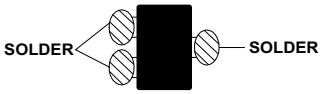


(2) Shift with tweezers and remove the chip part.

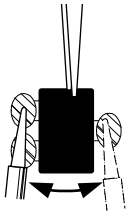


[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

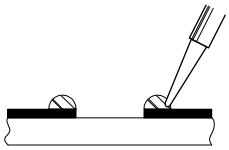


Note :
After removing the part, remove remaining solder from the pattern.

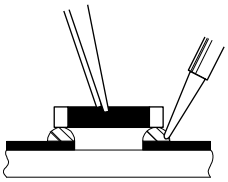
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

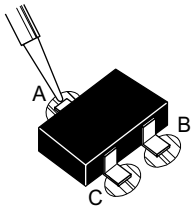


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

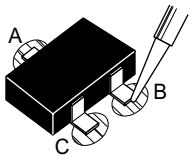


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.**
(2) **Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts, which are not specified in the list for this variable resistors, transformers, trimmer capacitors, etc.
(7) Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

■ User mode setting position

Setting item	Setting value
PICTURE MODE (VSM)	BRIGHT
TINT, COLOR, BRIGHT, DETAIL	Center
PICTURE	Maximum
VNR	OFF
AI ECO SENSOR	OFF
BASS, TREBLE, BALANCE	Center

4.2 MEASURING INSTRUMENT AND FIXTURES

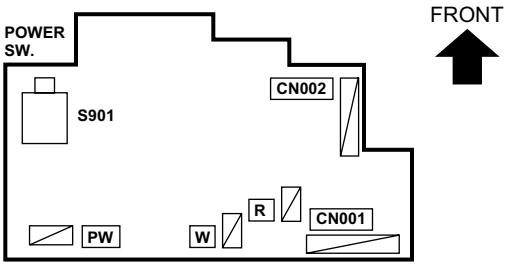
(1) DC voltmeter (or Digital voltmeter)
(2) Oscilloscope
(3) Signal generator (Pattern generator) [PAL/SECAM/NTSC]
(4) Remote control unit

4.3 ADJUSTMENT ITEMS

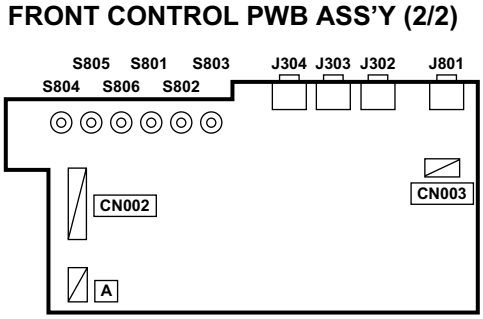
- ■ B1 POWER SUPPLY
- ■ FOCUS ADJUSTMENT
- ■ IF CIRCUIT ADJUSTMENTS
  - • IF VCO adjustment
  - • DELAY POINT (AGC TAKE-OVER) adjustment
- ■ VIDEO CIRCUIT ADJUSTMENTS
  - • WHITE BALANCE (Low light) adjustment
  - • WHITE BALANCE (High light) adjustment
  - • SUB BRIGHT adjustment
  - • SUB CONTRAST adjustment
  - • SUB COLOR 1 adjustment
  - • SUB COLOR 2 adjustment
  - • SUB TINT 1 adjustment
  - • SUB TINT 2 adjustment
- ■ DEFLECTION CIRCUIT ADJUSTMENTS
  - • V.SLOPE adjustment
  - • V.POSITION adjustment
  - • V.HEIGHT adjustment
  - • H.POSITION adjustment
  - • H. WIDTH adjustment
  - • SIDE PIN adjustment
  - • TRAPEZIUM adjustment
  - • V.S-CURVE adjustment
  - • CORNER adjustment
  - • H. PARALLEL adjustment
  - • H.BOW adjustment
- ■ VSM PRESET SETTING
- ■ PRESET SETTING
- ■ AUDIO SETTEING

4.4 ADJUSTMENT LOCATIONS

FRONT CONTROL PWB ASS'Y (1/2)

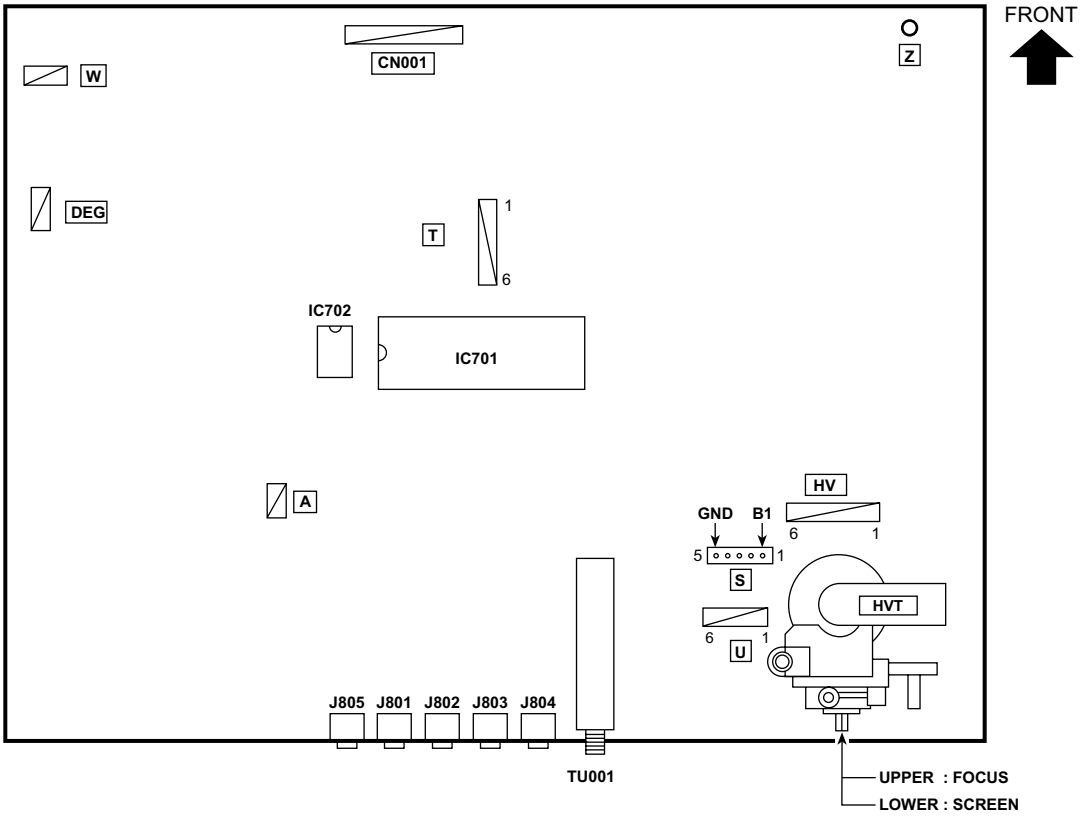


FRONT CONTROL PWB ASS'Y (2/2)

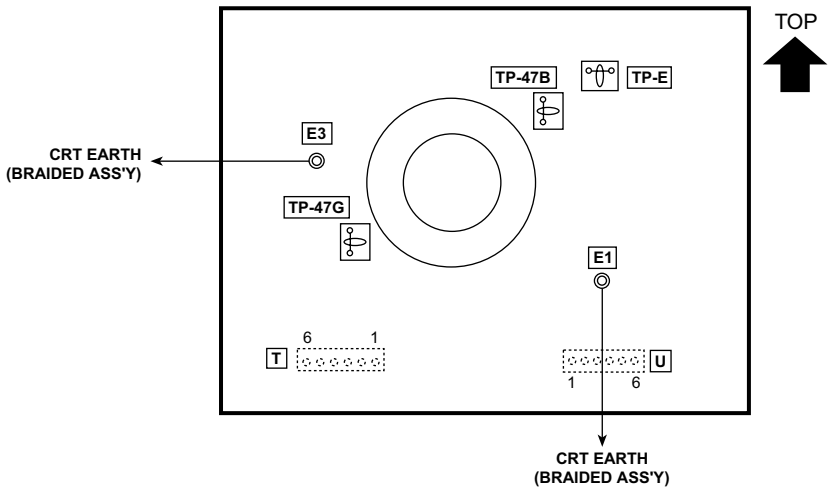


S801 : CH UP +
S802 : CH DOWN –
S803 : MENU
S804 : TV/VIDEO
S805 : VOL UP+
S806 : VOL DOWN –

MAIN PWB ASS'Y



CRT SOCKET PWB ASS'Y (SOLDER SIDE)



4.5 BASIC OPERATION IN SERVICE MENU

4.5.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the remote control unit.

4.5.2 SERVICE MENU ITEMS

With the SERVICE MENU,various settings (adjustments) can be made,and they are broadly classified in the following items of settings:

1. IF	For entering/adjusting the setting values (adjustment values) of the IF circuit.
2. VC	For entering/adjusting the setting values (adjustment values) of the VIDEO circuit.
3. DEF	For entering/adjusting the setting values (adjustment values) of the DEFLECTION circuit.
4. VSM PRESET	For setting the values of STANDARD,SOFT and BRIGHT. (VSM:video status memory)
5. PRESET	For setting the values of the preset.
6. AUDIO	For entering/adjusting the setting values (adjustment values) of the multi-sound circuit
7. PLUG & PLAY (ON)	This is not used for service.

4.5.3 BASIC OPERATION IN SERVICE MENU

1. HOW TO ENTER SERVICE MENU

Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed. (See Fig. 1 on the next page.)

2. SELECTION OF SUB MENU SCREEN

Press one of the keys 1 to 6 on the remote control unit,and select the SUB MENU SCREEN from the SERVICE MENU. (See Fig.1 on the next page.)

SERVICE MENU → SUB MENU
1. IF
2. VC
3. DEF
4. VSM PRESET
5. PRESET
6. AUDIO
7. PLUG & PLAY (ON)

3. METHOD OF SETTING

NOTES:
- Once the setting values are set, they are memorized automatically.
- It must not adjust without inputting a signal.

(1) 1. IF

[1.VCO] : Under normal conditions, no adjustment is required.

(a) [1] key	Select **1. IF**.
(b) [1] key	Select **1. VCO**.
(c) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

[2.DELAY POINT]

(a) [1] key	Select **1. IF**.
(b) [2] key	Select **2. DELAY POINT**.
(c) MENU [◀]/[▶] key	Adjust the setting value.
(d) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

(2) 2. VC, 3. DEF, 4. VSM PRESET, 5. PRESET and 6. AUDIO

(a) [2] ~[6] keys	Select one from **2. VC**, **3. DEF**, **4. VSM PRESET**, **5. PRESET** and **6. AUDIO**
(b) MENU [▼]/[▲] key	Select setting items.
(c) MENU[◀]/[▶] key	Adjust the setting values of the setting items. Use the number keys on the remote control unit for setting of WHITE BALANCE. For the setting, refer to each item concerned.
(d) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(3) 7. PLUG & PLAY (ON)

This is not used for service.

4. Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU by pressing the [DISPLAY] key, then again press the [DISPLAY] key to return to the normal screen.

4.5.4 SERVICE MENU FLOW CHART

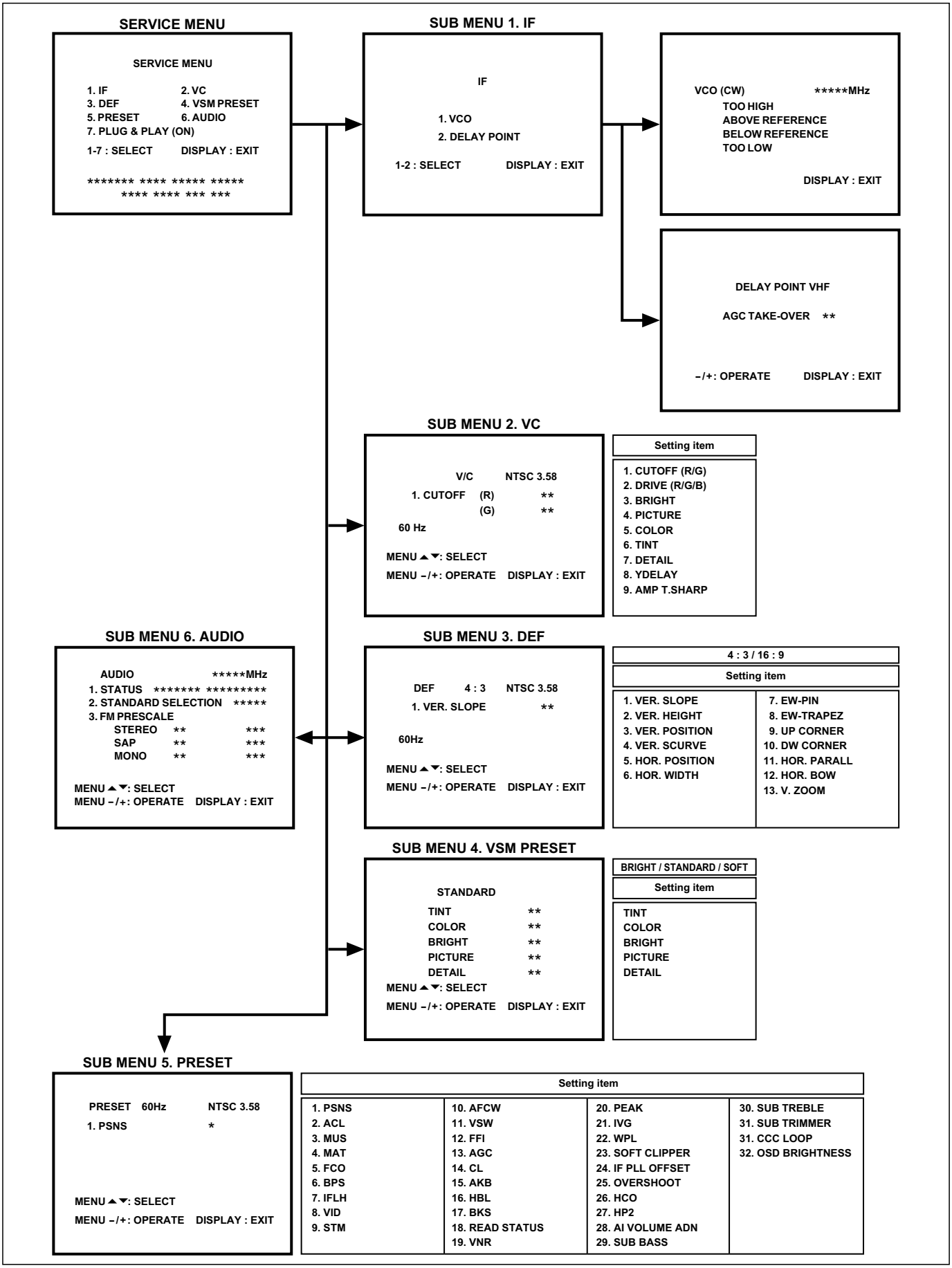


Fig. 1

4.6 ADJUSTMENT PROCEDURE

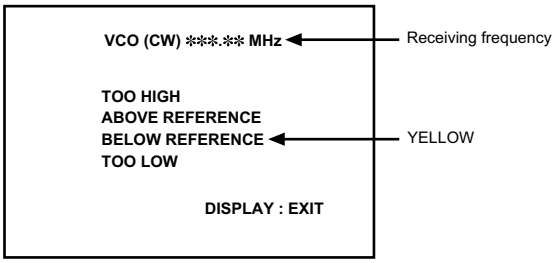
4.6.1 B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY check	Signal generator DC voltmeter	B1 (pin 1) GND (pin 5) [CN00S connector in MAIN PWB]		(1) Receive a black and white signal. (2) Connect a DC voltmeter between B1 and GND (between pins 1 and 5 of the connector CN00S). (3) Make sure that the voltage is **DC134.5V ± 2V**.

4.6.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	**Notes:** • Set PICTURE MODE (VSM) to "BRIGHT". • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.) When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment. (1) Receive a cross-hatch signal. (2) While looking at the screen centre, adjust the **FOCUS VR** so that the vertical and horizontal lines will be clear and in fine detail. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.6.3 IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO adjustment	Remote control unit		[1. IF] 1. VCO (CW)	**Note:** • Under normal conditions, no adjustment is required. (1) Select **1. IF** from the SERVICE MENU. (2) Select **1. VCO**. (3) Receive a broadcast signal. (4) Check the characters color of the **BELOW REFERENCE** displayed to **yellow**. (5) Press the [DISPLAY] key three times to return to normal screen.
				
DELAY POINT (AGC TAKE-OVER) adjustment	Remote control unit		[1. IF] 2. DELAY POINT	(1) Receive a black and white broadcast signal (color off). (2) Select **1. IF** from the SERVICE MENU. (3) Select **2. DELAY POINT**. (4) Adjust in order to eliminate any noise or beat from the image. Any increase above the initial value produces noise and any decrease below it produces beat. (5) Press the [DISPLAY] key three times to return to the normal screen. (6) Turn to other channels and make sure that there are no irregularities.

Adjustment item	Initial setting value	
	NTSC 3.58	
	VHF	UHF
2. DELAY POINT (AGC TAKE-OVER)	30	30

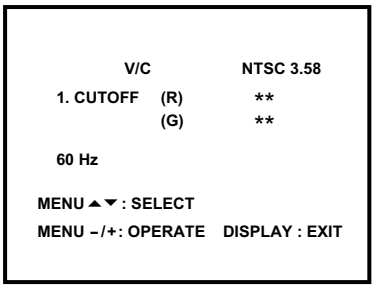
4.6.4 VIDEO CIRCUIT ADJUSTMENTS

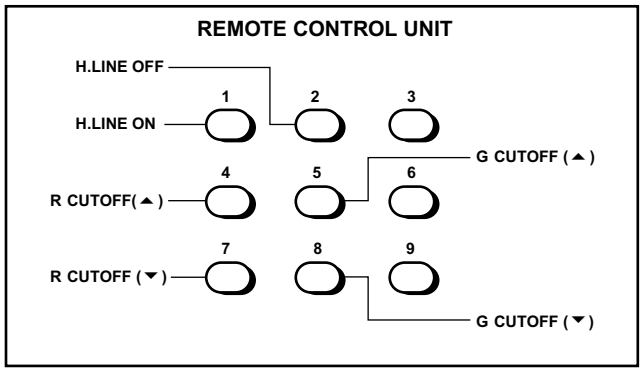
- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Do not change the initial setting values of the setting (adjustment) items not listed in “ADJUSTMENT PROCEDURE”.

[SUB MENU 2. VC]

Adjustment item	Variable range	Initial setting value			
		PAL	NTSC3.58	NTSC4.43	COMPONENT(V-2)
1. CUT OFF (R/G)	-32 ~ +31	0/0	←	←	-2/+14
2. DRIVE (R/G/B)	-32 ~ +31	0/0/0	←	←	←
3. BRIGHT (TV/V-1/V-2/V-3)	-32 ~ +31	-15/0/0/0	←	←	--- / --- /-4/ ---
4. PICTURE	-32 ~ +31	-11	←	←	---
5. COLOR (TV/VIDEO)	-32 ~ +31	---/-3	+11/---	---/0	---/+2
6. TINT (TV/VIDEO)	-32 ~ +31	---	-16/+4	0/+2	---
7. DETAIL (TV/VIDEO) **[Do not adjust]**					
[AV-29VT11/P, AV-29VT31/P]	-32 ~ +31	---/-10	-10/-10	---/-10	---/0
[AV-29VT11/T]	-32 ~ +31	---/-0	-0/-0	---/-0	---/0
8. Y DELAY (TV/VIDEO) **[Do not adjust]**	-8 ~ +7	---/+1	0/+1	---/0	---
9. AMP T. SHARP **[Do not adjust]**	-32 ~ +31	0	←	←	---

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low light) adjustment	Signal generator Remote control unit		[2. VC] 1.CUTOFF (R) 1.CUTOFF (G) SCREEN VR [In HVT]	**Note:** • Set PICTURE MODE (VSM) to “BRIGHT”. (1) Receive a PAL black and white signal (color off). (2) Select **2. VC** from the SERVICE MENU. (3) Select **1. CUTOFF (R)** and **(G)**, and set each value to initial setting value with the **[4]** and **[7]** keys, or **[5]** and **[8]** keys. (4) Press the **[1]** key to produce a single horizontal line. (5) Turn the **SCREEN VR** fully counterclockwise, then slowly turn it clockwise to where a red, blue or green color is faintly visible. (6) Use the **[4]** and **[7]** or **[5]** and **[8]** keys and adjust the other 2 colors to where the single horizontal line appears white. (7) Turn the **SCREEN VR** to where the single horizontal line glows faintly. (8) Press the **[2]** key to return to **1. CUTOFF** screen. (9) Press the [DISPLAY] key twice to return to the normal screen.



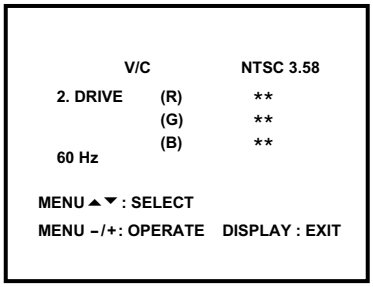


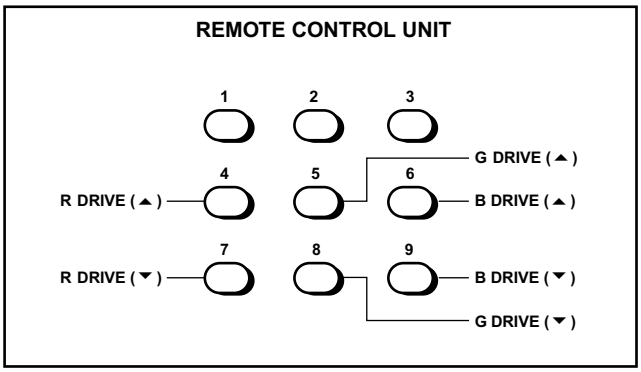
Adjustment Item		Variable range	Initial setting value
1. CUT OFF	R	-32 ~ +31	0
	G	-32 ~ +31	0

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (High light) adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[2. VC]
2.DRIVE (R)
2.DRIVE (G)
2.DRIVE (B)</td><td>Notes:
• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.

(1) Receive a PAL black and white signal (color off).
(2) Select 2. VC from the SERVICE MENU.
(3) Select 2. DRIVE (R), (G) and (B), and set each value to initial setting value with the [4] to [9] keys.
(4) Use the [4] to [9] keys to produce a white screen.
(5) Press the [DISPLAY] key twice to return to the normal screen.

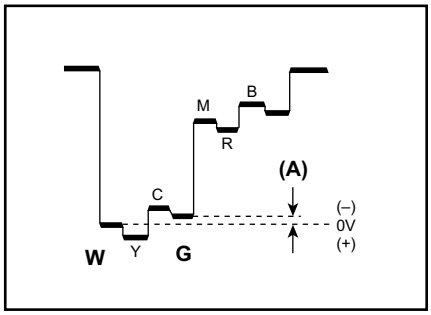
<table><tr><th>Adjustment Item</th><th></th><th>Variable range</th><th>Initial setting value</th></tr><tr><td rowspan="3">2. DRIVE</td><td>R</td><td>-32 ~ +31</td><td>0</td></tr><tr><td>G</td><td>-32 ~ +31</td><td>0</td></tr><tr><td>B</td><td>-32 ~ +31</td><td>0</td></tr></table></td></tr>
<tr><td>SUB BRIGHT adjustment</td><td>Remote control unit</td><td></td><td>[2. VC]
3. BRIGHT</td><td>Notes:
• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) and WHITE BALANCE (High light) adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.

(1) Receive a broadcast.
(2) Select 2. VC from the SERVICE MENU.
(3) Select 3. BRIGHT.
(4) Set the initial setting value.
(5) If the brightness is not best with the initial setting value, make fine adjustment until you get the best brightness.
(6) Press the [DISPLAY] key twice to return to the normal screen.</td></tr>
<tr><td>SUB CONTRAST adjustment</td><td>Remote control unit</td><td></td><td>[2. VC]
4. CONT</td><td>Notes:
• Proceed to the following adjustment after having completed the SUB BRIGHT adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.

(1) Receive a broadcast.
(2) Select 2. VC from the SERVICE MENU.
(3) Select 4. PICTURE.
(4) Set the initial setting value.
(5) If the contrast is not best with the initial setting value, make fine adjustment until you get the best contrast.
(6) Press the [DISPLAY] key twice to return to the normal screen.</td></tr>
</table>

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>SUB COLOR 1 adjustment</td><td>Remote control unit</td><td></td><td>[2. VC]
5. COLOR</td><td rowspan="2">[Method of adjustment without measuring instrument]
Notes:
• Proceed to the following adjustment after having completed the SUB CONTRAST adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.
- NTSC 3.58 COLOR -
(1) Receive a NTSC 3.58 broadcast.
(2) Select 2. VC from the SERVICE MENU.
(3) Select 5. COLOR.
(4) Set the initial setting value for NTSC 3.58 COLOR.
(5) If the color is not best with the initial setting value, make fine adjustment until you get the best color.
(6) Press the [DISPLAY] key twice to return to the normal screen.
- NTSC 4.43 COLOR -
When adjustment is done for NTSC 3.58 COLOR, appropriate values are automatically set for NTSC 4.43 COLOR.
- PAL COLOR -
(1) Input a PAL signal.
(2) Press the [COLOR SYSTEM] key to select the PAL color system.
(3) Make similar fine adjustment of PAL COLOR in the same way as for “NTSC 3.58 COLOR”.</td></tr>
<tr><td>SUB COLOR 2 adjustment</td><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-47G
TP-E
[CRT SOCKET PWB]</td><td>[2. VC]
5. COLOR</td></tr>
<tr><td colspan="4"> 
</td><td>[Method of adjustment using measuring instrument]
Notes:
• Proceed to the following adjustment after having completed the SUB CONTRAST adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.
- NTSC 3.58 COLOR -
(1) Receive a NSTC 3.58 color bar signal (full field color bar 75% white).
(2) Select 2. VC from the SERVICE MENU.
(3) Select 5. COLOR.
(4) Set the initial setting value of NTSC 3.58 COLOR.
(5) Connect the oscilloscope between TP-47G and TP-E.
(6) Adjust NTSC 3.58 COLOR to set the value (A) in the figure to +4V [AV-29VT11/P, AV-29VT31/P] or +6V [AV-29VT11/T].
- NTSC 4.43 COLOR -
When adjustment is done for NTSC 3.58 COLOR, appropriate values are automatically set for NTSC 4.43 COLOR.
- PAL COLOR -
(1) Input a PAL color bar signal (full field color bar 75% white).
(2) Press the [COLOR SYSTEM] key to select the PAL color system.
(3) Set the initial setting value of PAL COLOR.
(4) Adjust PAL COLOR to set the value (A) in the figure to +12V [AV-29VT11/P, AV-29VT31/P] or +14V [AV-29VT11/T].</td></tr>
</table>

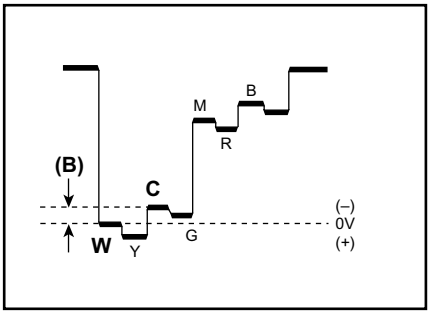
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>SUB TINT 1 adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[2. VC]
6. TINT</td><td rowspan="2">[Method of adjustment without measuring instrument]
Notes:
• Proceed to the following adjustment after having completed the SUB CONTRAST adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.

- NTSC 3.58 TINT -
(1) Receive a NTSC 3.58 color bar signal (full field color bar 75% white).
(2) Press the [COLOR SYSTEM] key to select the NTSC 3.58 color system.
(3) Select 2. VC from the SERVICE MENU.
(4) Select 6. TINT.
(5) Set the initial setting value of NTSC 3.58.
(6) If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint.
(7) Press the [DISPLAY] key twice to return to the normal screen.

- NTSC 4.43 TINT -
When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.</td></tr>
<tr><td>SUB TINT 2 adjustment</td><td>Signal generator

Oscilloscope

Remote control unit</td><td>TP-47G
TP-E
[CRT SOCKET PWB]</td><td>[2. VC]
6. TINT</td></tr>
<tr><td colspan="4"> 
</td><td>[Method of adjustment using measuring instrument]
Notes:
• Proceed to the following adjustment after having completed the SUB CONTRAST adjustment.
• Set PICTURE MODE (VSM) to “BRIGHT”.

- NTSC 3.58 TINT -
(1) Receive a NTSC 3.58 color bar signal (full field color bar 75% white).
(2) Press the [COLOR SYSTEM] key to select the NTSC 3.58 color system.
(3) Select 2. VC from the SERVICE MENU.
(4) Select 6. TINT.
(5) Set the initial setting value of NTSC 3.58.
(6) Connect the oscilloscope between TP-47G and TP-E.
(7) Adjust NTSC 3.58 TINT to set the value (B) in the figure to +2V [AV-29VT11/P, AV-29VT31/P] or +7V [AV-29VT11/T].
(8) Press the [DISPLAY] key twice to return to the normal screen.

- NTSC 4.43 TINT -
When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.</td></tr>
</table>

4.6.5 DEFLECTION CIRCUIT ADJUSTMENTS

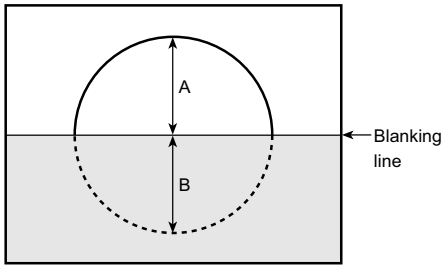
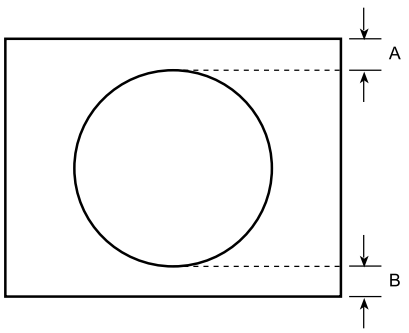
- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- When performing deflection circuit adjustment, adjusts PAL signal (fv: 50 Hz) in 4:3 mode and 16:9 mode respectively, and adjust the NTSC signal (fv: 60 Hz) similarly.

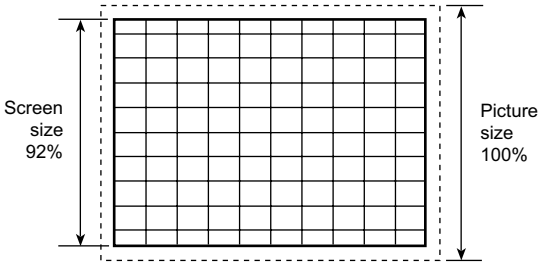
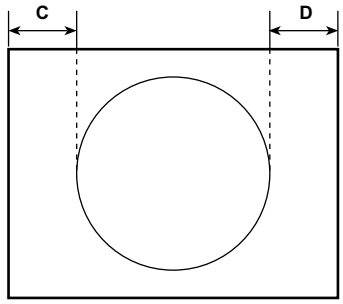
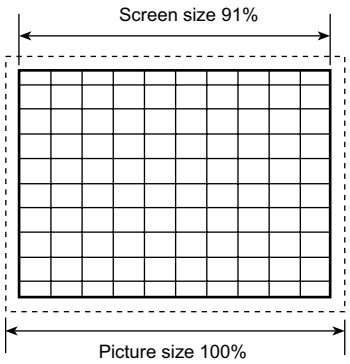
Note:
Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

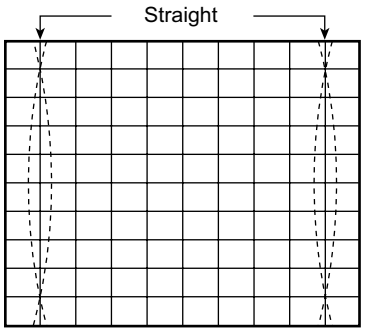
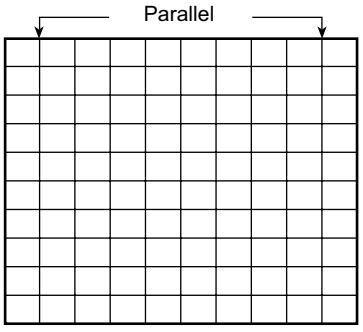
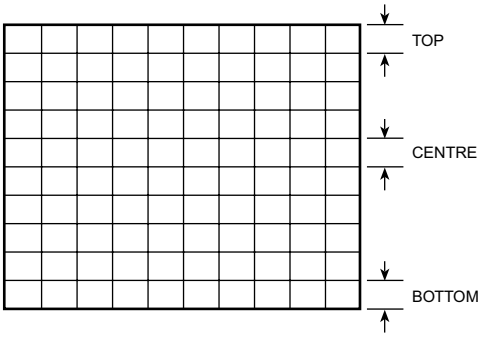
■ SUB MENU 3. DEF

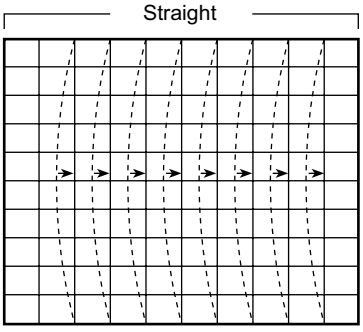
Adjustment item	Variable range	Initial setting value				
		4:3		COMPRESS (16:9)		COMPONENT (50Hz)
		50Hz	60Hz	50Hz	60Hz	
1. VER. SLOPE	-32 ~ +31	0	0	0	0	---
2. VER. HEIGHT	-32 ~ +31	0	0	+31	+31	---
3. VER. POSITION	-32 ~ +31	+2	-1	---	---	---
4. VER. SCURVE	-32 ~ +31	-3	0	---	---	---
5. HOR. POSITION	-32 ~ +31	-4	+7	---	---	+7
6. HOR. WIDTH	-32 ~ +31	+11	-1	---	---	---
7. EW-PIN	-32 ~ +31	-11	0	0	0	---
8. EW-TRAPEZ	-32 ~ +31	0	0	0	0	---
9. UP CORNER	-32 ~ +31	0	0	0	0	---
10. DW CORNER	-32 ~ +31	0	0	0	0	---
11. HOR. PARALL	-32 ~ +31	0	0	---	---	---
12. HOR. BOW	-32 ~ +31	0	0	---	---	---
13. V.ZOOM	-32 ~ +31	0	0	-25	-25	---

■ COMPRESS : OFF (4:3), fv: 50Hz/60Hz mode

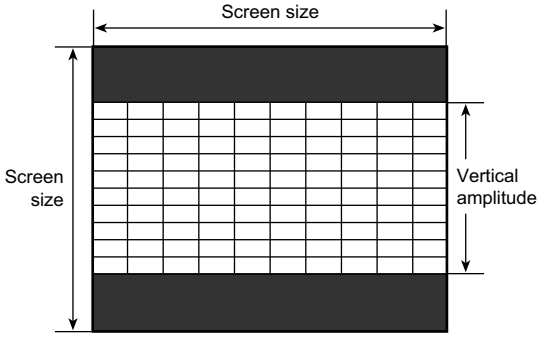
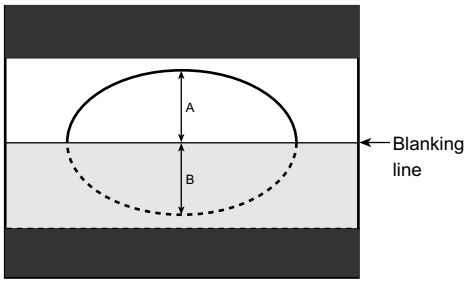
Item	Measuring instrument	Test point	Adjustment part	Description
V. SLOPE adjustment	Signal generator Remote control unit		[3. DEF] 1. VER. SLOPE	**- PAL V. SLOPE -** (1) Input a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **3. DEF** from the SERVICE MENU. (3) Select **1. VER. SLOPE**. (4) Set the initial setting value of **1. VER. SLOPE**. (5) Adjust **1. VER. SLOPE** to make "**A = B**". (6) Press the [DISPLAY] key to refurn to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. SLOPE in the same way as for "PAL V. SLOPE".
				
V. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 3. VER. POSITION	**- PAL V. POSITION -** (1) Input a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **3. VER. POSITION**. (3) Set the initial setting value of **3. VER. POSITION**. (4) Adjust **3. VER. POSITION** to make "**A = B**". **- NTSC V. POSITION -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. POSITION in the same way as for "PAL V. POSITION".
				

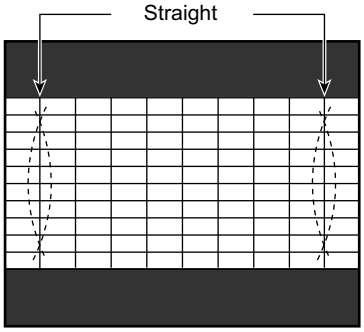
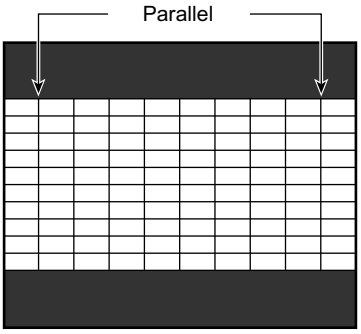
Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[3. DEF] 2. VER. HEIGHT 13. V. ZOOM	**- PAL V. HEIGHT -** (1) Input a PAL cross-hatch signal. (2) Select **2. VER. HEIGHT**. (3) Set the initial setting value of **2. VER. HEIGHT**. (4) Select **13. V. ZOOM**. (5) Set the initial setting value of **13. V. ZOOM**. (6) Adjust **13. V. ZOOM** and make the vertical screen size 92% of the picture size. **- NTSC V. HEIGHT -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
H. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 5. HOR. POSITION	**- PAL H. POSITION -** (1) Input a PAL circle pattern signal. (2) Select **5. HOR. POSITION**. (3) Set the initial setting value of **5. HOR. POSITION**. (4) Adjust **5. HOR. POSITION** to make “**C = D**”. **- NTSC H. POSITION -** (1) Receive a NTSC circle pattern signal. (2) Make similar adjustment of NTSC H. POSITION in the same way as for “PAL H. POSITION”.
				
H. WIDTH adjustment	Signal generator Remote control unit		[3.DEF] 6. HOR. WIDTH	**- PAL H. WIDTH -** (1) Input a PAL cross-hatch signal. (2) Select **6. HOR. WIDTH**. (3) Set the initial setting value of **6. HOR. WIDTH**. (4) Adjust **6. HOR. WIDTH** and make the horizontal screen size 91% of the picture size. **- NTSC H. WIDTH -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. WIDTH in the same way as for “PAL H. WIDTH”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[3. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Input a PAL cross-hatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[3.DEF] 8. EW-TRAPEZ	**- PAL TRAPEZIUM -** (1) Input a PAL cross-hatch signal. (2) Select **8. EW-TRAPEZ**. (3) Set the initial setting value of **8. EW-TRAPEZ**. (4) Adjust **8. EW-TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
				
V.S-CURVE adjustment	Signal generator Remote control unit		[3. DEF] 4. VER. SCURVE	**- PAL V. S-CURVE -** (1) Input a PAL cross-hatch signal. (2) Select **4. VER. SCURVE**. (3) Set the initial setting value of **4. VER. SCURVE**. (4) Adjust **4. VER. SCURVE** so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform. **- NTSC V. S-CURVE -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC V. S-CURVE in the same way as for “PAL V. S-CURVE”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
CORNER adjustment	Signal generator Remote control unit		[3. DEF] 9. UP CORNER 10. DW CORNER	**- PAL CORNER -** (1) Input a PAL cross-hatch signal. (2) Select **9. UP CORNER**. (3) Set the initial setting value of **9. UP CORNER**. (4) Select **10. DW CORNER**. (5) Set the initial setting value of **10. DW CORNER**. (6) Adjust **9. UP CORNER** and **10. DW CORNER** so that the vertical lines at the four corners on the screen are straight. **- NTSC CORNER -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”.
H. PARALLEL adjustment	Signal generator Remote control unit		[3.DEF] 11. HOR. PARALL	**- PAL H. PARALLEL -** (1) Input a PAL cross-hatch signal. (2) Select **11. HOR. PARALL**. (3) Set the initial setting value of **11. HOR. PARALL**. (4) Adjust **11. HOR. PARALL** to optimize the parallelogram distortion. **- NTSC H. PARALLEL -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. PARALLEL in the same way as for “PAL H. PARALLEL”.
H. BOW adjustment	Signal generator Remote control unit		[3.DEF] 12. HOR. BOW	**- PAL H. BOW -** (1) Input a PAL cross-hatch signal. (2) Select **12. HOR. BOW**. (3) Set the initial setting value of **12. HOR. BOW**. (4) Adjust **12. HOR. BOW** to optimize the horizontal arc distortion. **- NTSC H. BOW -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. BOW in the same way as for “PAL H. BOW”. (3) Press the [DISPLAY] key twice to return to the normal screen.
				

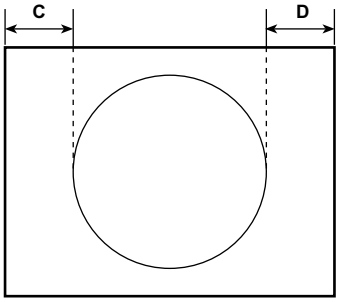
■ **COMPRESS : ON (16:9), fv: 50Hz/60Hz mode**

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[3.DEF] 13. V. ZOOM 2. VER. HEIGHT	**- PAL V. HEIGHT -** (1) Input a PAL cross-hatch signal of vertical frequency 50Hz. (2) Select COMPRESS from the MENU and set COMPRESS to ON. (3) Select **3. DEF** from the SERVICE MENU. (4) Set the initial setting value of **13. V. ZOOM**. (5) Select **2. VER. HEIGHT**. (6) Set the initial setting value of **2. VER. HEIGHT**. (7) Adjust **2. VER. HEIGHT** to set the vertical amplitude of the image to 305mm. **- NTSC V. HEIGHT -** (1) Receive a NTSC cross-hatch signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
V. SLOPE adjustment	Signal generator Remote control unit		[3.DEF] 1. VER. SLOPE	**- PAL V. SLOPE -** (1) Input a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **3. DEF** from the SERVICE MENU. (3) Select **1. VER. SLOPE**. (4) Set the initial setting value of **1. VER. SLOPE**. (5) Adjust **1. VER. SLOPE** to make “**A = B**”. (6) Press the [DISPLAY] key to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. SLOPE in the same way as for “PAL V. SLOPE”. (3) Press the [DISPLAY] key twice to return to the normal screen.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[3. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Input a PAL cross-hatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[3. DEF] 8. EW-TRAPEZ	**- PAL TRAPEZIUM -** (1) Input a PAL cross-hatch signal. (2) Select **8. EW-TRAPEZ**. (3) Set the initial setting value of **8. EW-TRAPEZ**. (4) Adjust **8. EW-TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
				
CORNER adjustment	Signal generator Remote control unit		[3. DEF] 9. UP CORNER 10. DW CORNER	**- PAL CORNER -** (1) Input a PAL cross-hatch signal. (2) Select **9. UP CORNER**. (3) Set the initial setting value of **9. UP CORNER**. (4) Select **10. DW CORNER**. (5) Set the initial setting value of **10. DW CORNER**. (6) Adjust **9. UP CORNER** and **10. DW CORNER** so that the vertical lines at the four corners on the screen are straight. **- NTSC CORNER -** (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”. (3) Press the [DISPLAY] key twice to return to the normal screen.

■ **VIDEO - 2 SET : COMPONENT, fv: 50/60Hz mode**

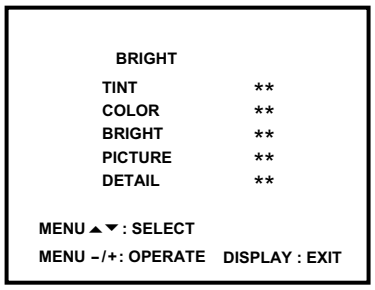
Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 5. HOR. POSITION	(1) Input a PAL circle pattern signal to VIDEO-2 terminal. (2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. (3) Select **3. DEF** from the SERVICE MENU. (4) Select **5. HOR. POSITION**. (5) Set the initial setting value of **5. HOR. POSITION**. (6) Adjust **5. HOR POSITION** to make "**C=D**". (7) Press the [DISPLAY] key twice to return to the normal screen.



4.6.6 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET setting	Remote control unit		[4. VSM PRESET] 1. TINT 2. COLOR 3. BRIGHT 4. PICTURE 5. DETAIL	(1) Select **4. VSM PRESET** from the SERVICE MENU. (2) Select BRIGHT with the [PICTURE MODE] key. (3) Adjust to reset the set values of **1. TINT** ~ **5. DETAIL** to the values shown in the table. (4) Respectively select the VSM PRESET mode for SOFT and STANDARD, and make similar adjustment as in 3 above. (5) Press the [DISPLAY] key twice to return to the normal screen.

SUB MENU 4. VSM PRESET



[Setting Values for SUB 4. VSM PRESET]

VSM setting item \ VSM preset mode	BRIGHT	STANDARD	SOFT
TINT	15	←	←
COLOR	15	←	←
BRIGHT	15	←	←
PICTURE	30	15	11
DETAIL	15	←	7

4.6.7 PRESET SETTING

• Do not adjust **5. PRESET** in the SERVICE MENU as it requires no adjustment.

[SUB MENU 5. PRESET]

Setting item	Variable range	Initial setting value	
		AV-29VT11/P AV-29VT11/T	AV-29VT31/P
1. PSNS	0/1	0	←
2. ACL	0/1	0	←
3. MUS	0/1	0	←
4. MAT	0/1	0	←
5. FCO	0/1	0	←
6. BPS	0/1	0	←
7. IFLH	0/1	0	←
8. VID	0/1	0	←
9. STM	0/1	0	←
10. AFCW	0/1	0	←
11. VSW	0/1	0	←
12. FFI	0/1	0	←
13. AGC	00/01/10/11	01	←
14. CL	50 ~ 95	50	←
15. AKB	0/1	0	←
16. HBL	0/1	0	←
17. BKS	0/1	1	←
18. READ STATUS	---	---	---
19. VNR	00 ~ 63	10	←
20. PEAK	0 ~ 3	3	←
21. IVG	0/1	1	←
22. WPL	0 ~ F	5	←
23. SOFT CLIPPER	0 ~ 3	3	←
24. IF PLL OFFSET	0 ~ 63	32	←
25. OVERSHOOT	0 ~ 3	3	←
26. HCO	0/1	0	←
27. HP2	0/1	0	←
28. AI VOLUME ADN	00/01/10/11	10	←
29. SUB BASS	-6 ~ +6	0	←
30. SUB TREBLE	-6 ~ +6	-4	+2
31. SUB TRIMMER	0 ~ 6	0	←
31. CCC LOOP	0 ~ 4	0	←
32. OSD BRIGHTNESS	0 ~ 15	0	←

4.6.8 AUDIO SETTING

• Do not adjust **6. AUDIO** in the SERVICE MENU as it requires no adjustment.

[SUB MENU 6. AUDIO]

Setting item		Variable range	Initial setting value
1. STATUS		---	(display only)
2. STANDARD SELECTION		---	(display only)
3. FM PRESCALE	STEREO	00H ~ FFH	34H
	SAP	00H ~ FFH	34H
	MONO	00H ~ FFH	34H

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

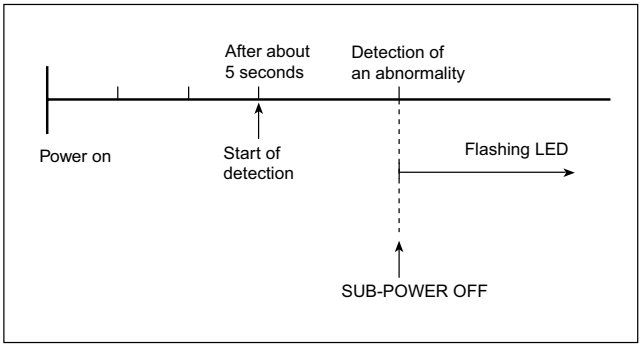
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flash to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
B1 over-current protection	An over-current on the low B1 line is detected.	The main microcomputer detects the possible abnormality at 30-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality.	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is taken out and put in again.
CRT neck protection	Operation of CRT neck protection circuit	DITTO	DITTO

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power is turned on, the SUB POWER is turned off immediately and the LED flash.



[INDICATION BY THE POWER LED]

Item	LED flashing intervals	Priority of detection
[1] B1 over-current protection	At 0.2-second intervals	1
[2] CRT neck protection	At 1-second intervals	2

Note: In case of [1] + [2], the item [1] is indicated.

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS	
CR	Carbon Resistor
FR	Fusible Resistor
PR	Plate Resistor
VR	Variable Resistor
HV R	High Voltage Resistor
MF R	Metal Film Resistor
MG R	Metal Glazed Resistor
MP R	Metal Plate Resistor
OM R	Metal Oxide Film Resistor
CMF R	Coating Metal Film Resistor
UNF R	Non-Flammable Resistor
CH V R	Chip Variable Resistor
CH MG R	Chip Metal Glazed Resistor
COMP. R	Composition Resistor
LPTC R	Linear Positive Temperature Coefficient Resistor

CAPACITORS	
C CAP.	Ceramic Capacitor
E CAP.	Electrolytic Capacitor
M CAP.	Mylar Capacitor
CH CAP.	Chip Capacitor
HV CAP.	High Voltage Capacitor
MF CAP.	Metalized Film Capacitor
MM CAP.	Metalized Mylar Capacitor
MP CAP.	Metalized Polystyrol Capacitor
PP CAP.	Polypropylene Capacitor
PS CAP.	Polystyrol Capacitor
TF CAP.	Thin Film Capacitor
MPP CAP.	Metalized Polypropylene Capacitor
TAN. CAP.	Tantalum Capacitor
CH C CAP.	Chip Ceramic Capacitor
BP E CAP.	Bi-Polar Electrolytic Capacitor
CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT 3-2
EXPLODED VIEW PARTS LIST -1 3-3
EXPLODED VIEW -1 3-3
EXPLODED VIEW PARTS LIST -2 3-4
EXPLODED VIEW -2 3-5
EXPLODED VIEW PARTS LIST -3 [AV-29VT31/P] 3-6
EXPLODED VIEW -3 3-6
PRINTED WIRING BOARD PARTS LIST [AV-29VT11/P] 3-7
MAIN P.W. BOARD ASS'Y (SCH-1176A-H2) 3-7
CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2) 3-10
FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2) 3-11
PRINTED WIRING BOARD PARTS LIST [AV-29VT31/P] 3-13
MAIN P.W. BOARD ASS'Y (SCH-1178A-H2) 3-13
CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2) 3-16
FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2) 3-16
PRINTED WIRING BOARD PARTS LIST [AV-29VT11/T] 3-17
MAIN P.W. BOARD ASS'Y (SCH-1176A-H2) 3-17
CRT SOCKET P.W. BOARD ASS'Y (SCH-3009A-H2) 3-20
FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2) 3-21
REMOTE CONTROL UNIT PARTS LIST (RM-C1331-1H) [AV-29VT11/P, AV-29VT11/T] 3-22
REMOTE CONTROL UNIT PARTS LIST (RM-C1330-1H) [AV-29VT31/P] 3-22
PACKING 3-23
PACKING PARTS LIST 3-23

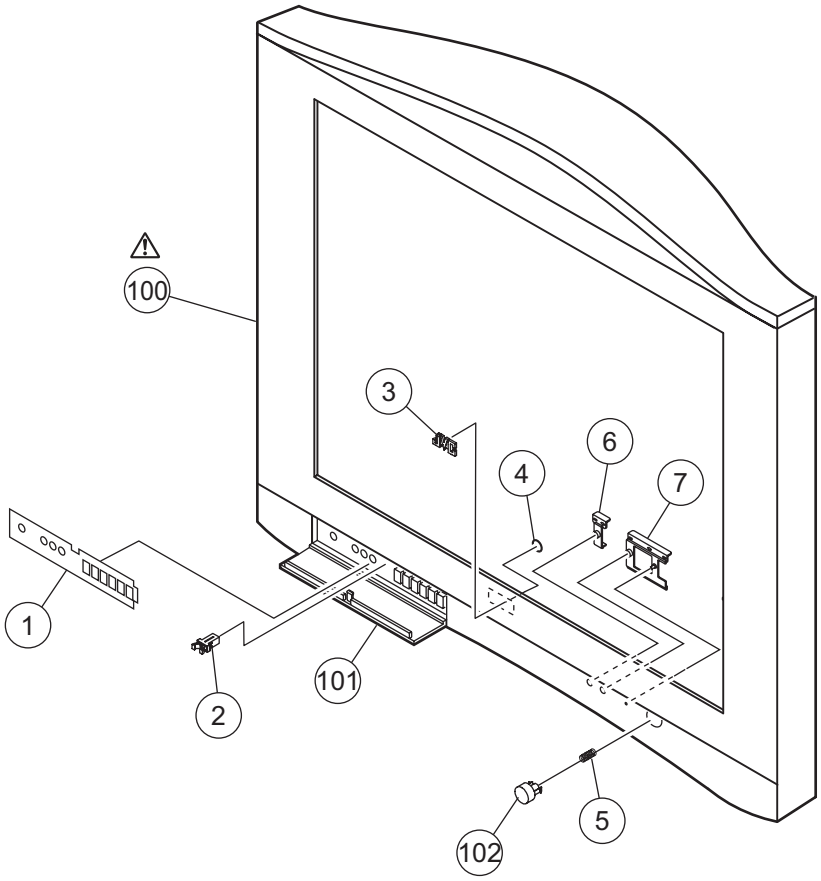
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-29VT11/P	AV-29VT31/P	AV-29VT11/T
MAIN P.W.B	SCH-1176A-H2	SCH-1178A-H2	SCH-1177A-H2
CRT SOCKET P.W.B	SCH-3006A-H2	←	SCH-3009A-H2
FRONT CONTROL P.W.B	SCH-8006A-H2	←	←
REMOTE CONTROL UNIT	RM-C1331-1H	RM-C1330-1H	RM-C1331-1H

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG20028-001A-H	OPERATION SHEET		
	2	CM48229-00A-C	DOOR LATCH		
	3	LC41540-002B	JVC MARK		
	4	QYNSS2000P	PUSH NUT		
	5	CM35235-003-H	SPRING		
	6	GG30050-001B-H	REMOCON LENS		
	7	GG30049-001B-H	LED LENS		
⚠	100	GG10239-004A-H	FRONT CABINET ASS'Y	Inc.101,102	
	101	GG20027-013A-H	DOOR		
	102	GG30048-002A-H	POWER KNOB		

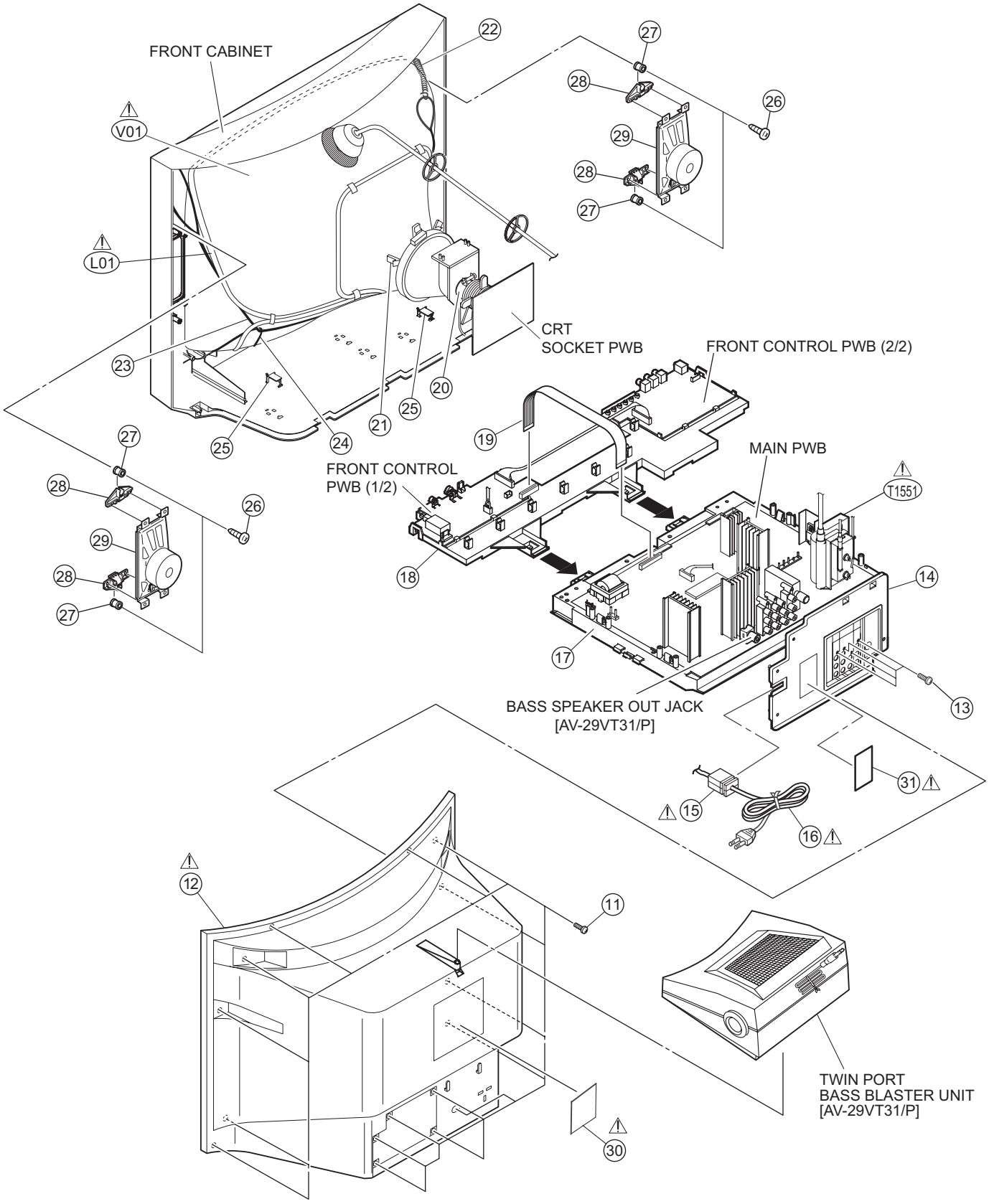
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A68QCU770X52K	CRT	Inc.DEF YOKE	
⚠	L01	QQW0150-001	DEG COIL	Inc.ROATATION COIL	
⚠	T1551	QQH0169-001	FB TRANSF		
	11	QYSBSFG4016Z	TAP SCREW	4.0mm x 16mm(x16)	
⚠	12	GG10192-002B-H	REAR COVER		AV-29VT11/P,AV-29VT11/T
⚠	12	GG10192-003B-H	REAR COVER		AV-29VT31/P
	13	QYSBSF3012M	TAP SCREW	3.0mm x 12mm(x4)	
	14	LC11064-008A-H	AV BOARD		AV-29VT11/P,AV-29VT11/T
	14	LC11064-007A-H	AV BOARD		AV-29VT31/P
⚠	15	CM23167-A01-H	POWER CORD CLAMP		AV-29VT11/P,AV-29VT31/P
⚠	15	GG20049-001A-H	POWER CORD CLAMP		AV-29VT11/T
⚠	16	QMPR380-165-K2	POWER CORD	1.65m BLACK	AV-29VT11/P,AV-29VT31/P
⚠	16	QMPR520-170-JC	POWER CORD	1.7m BLACK	AV-29VT11/T
	17	LC11061-001A-H	CHASSIS BASE		
	18	LC11062-001D-H	CONTROL BASE		
	19	CHFD125-18BD	FFC WIRE		
	20	CE42568-00A	PC MAGNET		
	21	CE40764-00A	WEDGE ASS'Y	(x4)	
	22	A48457-3-H	SPRING		
	23	WJY0018-001A	BRAIDED ASS'Y		
	24	CHGB0017-0C	BRAIDED SUB ASS'Y	(x2)	
	25	LC30103-001B-H	CHASSIS ADAPTER	(x2)	
	26	LC40317-002A-H	TAP SCREW	(x4)	
	27	LC40226-004A-H	SPACER	(x4)	
	28	GG20023-001B-H	SP HOLDER	(x4)	
	29	QAS0139-001	SPEAKER	(x2) SP01,SP02	
⚠	30	GG20024-001B-H	RATING LABEL		
⚠	31	GG30037-001A-H	TAIWAN LABEL		AV-29VT11/T

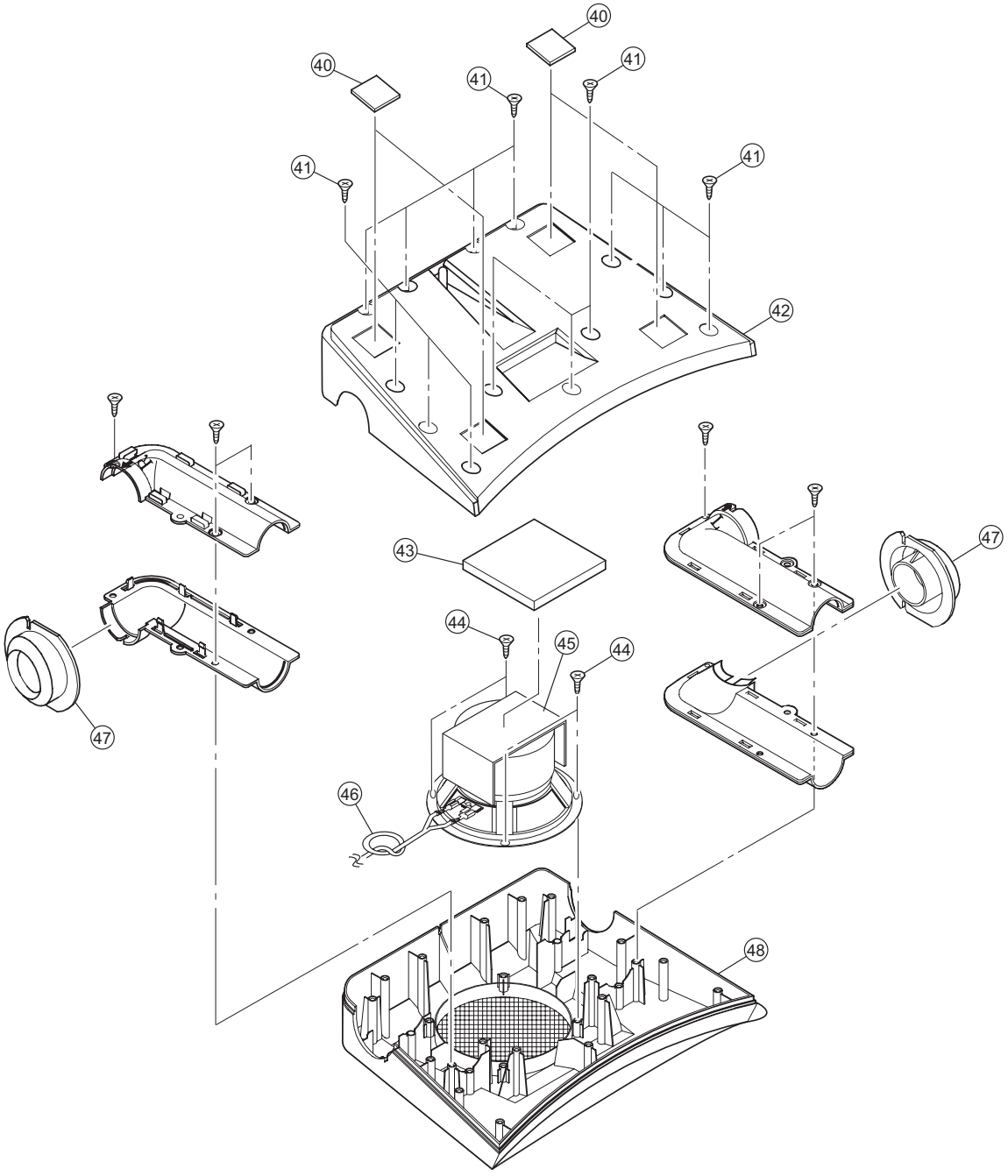
EXPLODED VIEW -2



EXPLODED VIEW PARTS LIST -3 [AV-29VT31/P]

⚠	Ref.No.	Part No.	Part Name	Description	Local
	40	LC40352-001A-H	RUBBER SHEET	(x4)	
	41	QYSBSFG4016Z	TAP SCREW	4.0mm x 16mm(x13)	
	42	GG10141-001C-H	BASS BOTTOM		
	43	LC41211-001A	SOUND ABSORBER		
	44	QYSBSFG4016Z	TAP SCREW	4.0mm x 16mm(x4)	
	45	QAS0118-001	SPEAKER	SP03	
	46	WJJ0266-002A	E-SIC WIRE C-C		
	47	GG30022-001A-H	BASS DUCT R	(x2)	
	48	GG10140-001C-H	BASS TOP		

EXPLODED VIEW -3



PRINTED WIRING BOARD PARTS LIST [AV-29VT11/P]

MAIN P.W. BOARD ASS'Y (SCH-1176A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1301	TDA9181T/N1-X	IC		
IC1401	LA78041	IC		
IC1461	JLC1562BF-X	IC		
IC1480	UPC358G2-XE	IC		
IC1601	MSP3445GQGB8V3X	IC		
IC1602	NJW1136GL1-W	IC		
IC1650	AN5277	IC		
IC1701	TDA9386N23I1265	IC (MCU)		
IC1702	AT24WC08-29VS21	IC	(SERVICE)	
IC1801	MM1492AF	IC		
IC1901	STR-F6256S-F7	IC		
IC1951	SE135N	IC		
IC1972	MM1563DF-X	IC		
IC1973	L7812CP	IC		
IC1974	MM1565AF-X	IC		
IC1975	PQ090RD01SZ	IC		
Q1101	2SC5083/L-P/-T	TRANSISTOR		
Q1106	2SA1530A/QR/-X	TRANSISTOR		
Q1108	2SC3928A/QR/-X	TRANSISTOR		
Q1150	2SC3928A/QR/-X	TRANSISTOR		
Q1301	2SA1530A/QR/-X	TRANSISTOR		
Q1302	2SA1530A/QR/-X	TRANSISTOR		
Q1303	UN2212-X	DIGI TRANSISTOR		
Q1304	2SC3928A/QR/-X	TRANSISTOR		
Q1480	2SD1913(RS)	TRANSISTOR		
Q1521	BSN304-T	TRANSISTOR		
⚠Q1522	2SD2634-YD	TRANSISTOR	H OUT	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		
Q1592	UN2212-X	DIGI TRANSISTOR		
Q1660	2SC3928A/QR/-X	TRANSISTOR		
Q1661	2SC3928A/QR/-X	TRANSISTOR		
Q1683	2SA1530A/QR/-X	TRANSISTOR		
Q1684	2SA1530A/QR/-X	TRANSISTOR		
Q1685	DTC323TK-X	DIGI TRANSISTOR		
Q1686	DTC323TK-X	DIGI TRANSISTOR		
Q1701	2SA1530A/QR/-X	TRANSISTOR		
Q1702	2SA1530A/QR/-X	TRANSISTOR		
Q1720	2SA1530A/QR/-X	TRANSISTOR		
Q1801	DTC323TK-X	DIGI TRANSISTOR		
Q1802	DTC323TK-X	DIGI TRANSISTOR		
Q1803	2SA1530A/QR/-X	TRANSISTOR		
Q1804	KTC3199/YG/-T	TRANSISTOR		
Q1860	2SC3928A/QR/-X	TRANSISTOR		
Q1861	2SA1530A/QR/-X	TRANSISTOR		
Q1862	2SA1530A/QR/-X	TRANSISTOR		
Q1901	2SC3852A	POW TRANSISTOR		
Q1951	2SA1013/RO/-T	TRANSISTOR		
Q1952	2SC3928A/QR/-X	TRANSISTOR		
Q1953	2SC3928A/QR/-X	TRANSISTOR		
Q1954	2SC3928A/QR/-X	TRANSISTOR		
Q1955	2SC3928A/QR/-X	TRANSISTOR		
D1101	1SS268-X	SI DIODE		
D1301	MTZJ5.1B-T2	Z DIODE		
D1401	RGP10J-5025-T3	SI DIODE		
D1402	MTZJ75-T2	Z DIODE		
D1405	1N4003-T2	SI DIODE		
D1408	MA111-X	SI DIODE		
D1480	MTZJ4.3A-T2	Z DIODE		
D1521	RH3G-F1	SI DIODE		
D1522	31DF6N-FC5	SI DIODE		
D1523	RGP10J-5025-T3	SI DIODE		
D1541	RGP10J-5025-T3	SI DIODE		
D1551	EU2-T3	SI DIODE		
D1553	RGP10J-5025-T3	SI DIODE		
D1554	RGP10J-5025-T3	SI DIODE		
D1592	MA3075/H/-X	Z DIODE		
D1652	MA3330/L/-X	Z DIODE		
D1653	MA3330/L/-X	Z DIODE		
D1655	MA111-X	SI DIODE		
D1657	MA111-X	SI DIODE		
D1701	MA111-X	SI DIODE		
D1702	MA3020-X	Z DIODE		
D1703	MA3036-X	Z DIODE		
D1730	MA111-X	SI DIODE		
D1731	MA111-X	SI DIODE		
D1732	MA111-X	SI DIODE		
D1733	MA111-X	SI DIODE		
D1801	MA3120/M/-X	Z DIODE		
D1802	MA3120/M/-X	Z DIODE		
D1901	GSIB460	BRIDGE DIODE		
D1902	MTZJ33B-T2	Z DIODE		
D1906	MTZJ27B-T2	Z DIODE		
D1907	MTZJ33B-T2	Z DIODE		
D1908	MA3200/M/-X	Z DIODE		
D1909	1SS133-T2	SI DIODE		
D1911	RGP10J-5025-T3	SI DIODE		
D1912	RGP10J-5025-T3	SI DIODE		
D1913	RGP10M-5010-T3	SI DIODE		
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D1915	MTZJ39B-T2	Z DIODE		
D1916	MTZJ15B-T2	Z DIODE		
D1917	1SS133-T2	SI DIODE		
D1919	1SS133-T2	SI DIODE		
D1920	MTZJ15B-T2	Z DIODE		
D1950	RGP10J-5025-T3	SI DIODE		
D1952	FSF05A20	SI DIODE		
D1953	RGP10J-5025-T3	SI DIODE		
D1954	RU30A-F1	SI DIODE		
D1955	1SR35-400A-T2	SI DIODE		
D1956	31DF6N-FC5	SI DIODE		
D1958	MTZJ5.1A-T2	Z DIODE		
D1960	MA111-X	SI DIODE		
D1961	MA111-X	SI DIODE		
D1964	MA3330/L/-X	Z DIODE		
D1966	MA3047/L/-X	Z DIODE		
D1968	MA111-X	SI DIODE		
D1969	MA111-X	SI DIODE		
D1970	MTZJ9.1B-T2	Z DIODE		
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1150	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1151	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
⚠C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
⚠C1524	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C1527	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	

⚠Ref No.	Part No.	Part Name	Description Local
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1606	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1607	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1608	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1609	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1612	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1617	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1619	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1620	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1621	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
⚠C1902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1969	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
⚠C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K

⚠Ref No.	Part No.	Part Name	Description Local
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1150	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1152	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R1153	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R1154	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
⚠R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
⚠R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
⚠R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1602	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R1603	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1604	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1651	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1652	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1817	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
⚠R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J
R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
⚠R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L1101	QQLZ014-R82	COIL	0.82uH 100mA L
L1102	QQL244K-180Z	PEAKING COIL	18uH K
L1301	QQL244K-221Z	PEAKING COIL	220uH K
L1401	QQL26AK-220Z	CHOKE COIL	22uH K
L1480	QQR1138-001	CHOKE COIL	
L1523	QQR1243-001	LINIARITY COIL	
L1541	QQL244K-220Z	PEAKING COIL	22uH K
L1601	QQL244K-4R7Z	PEAKING COIL	4.7uH K
L1701	QQL244K-100Z	PEAKING COIL	10uH K
L1702	QQL244K-100Z	PEAKING COIL	10uH K
L1731	QQL244J-101Z	PEAKING COIL	100uH J
L1951	QQLZ034-460	HEATER CHOKE	46uH
L1953	QQL244J-5R6Z	COIL	5.6uH J
L1954	QQL26AK-820Z	CHOKE COIL	82uH K
T1521	QQR1229-001	DRIVE TRANSF	
⚠T1901	QQS0226-001	SW TRANSF	
⚠PC1901	PC123F2	PHOTO COUPLER	
CF1103	QAX0639-001Z	C TRAP	4.500MHz
⚠CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
⚠CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
J1801	QNZ0454-001	AV JACK	VIDEO1 IN
J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
J1804	QNN0349-001	PIN JACK	OUTPUT
K1101	QQR1114-001Z	FERRITE BEADS	
K1704	QQR0582-001Z	FERRITE BEADS	
K1706	QQR1113-001Z	FERRITE BEADS	
K1901	QQR1214-001Y	FERRITE BEADS	
K1902	QQR1214-001Y	FERRITE BEADS	
K1903	QQR1214-001Y	FERRITE BEADS	
K1904	QQR1113-001Z	FERRITE BEADS	
K1905	QQR1113-001Z	FERRITE BEADS	
K1906	QQR1113-001Z	FERRITE BEADS	
K1952	QQR1214-001Y	FERRITE BEADS	
K1953	QQR1214-001Y	FERRITE BEADS	
K1954	QQR1214-001Y	FERRITE BEADS	
K1955	QQR1214-001Y	FERRITE BEADS	
⚠LF1901	QQR1356-001	LINE FILTER	
⚠RY1901	QSK0061-001	RELAY	
SF1101	QAX0663-001	SAW FILTER	
SF1102	QAX0731-001	SAW FILTER	
⚠TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
TU1001	QAU0331-001	TUNER	
W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1601	CE42546-001Z	CRYSTAL	
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC3101	TDA6107JF/N3	IC	
Q3101	2SC3928A/QR/-X	TRANSISTOR	
Q3102	2SC3928A/QR/-X	TRANSISTOR	
Q3103	2SC3928A/QR/-X	TRANSISTOR	
Q3104	2SC3928A/QR/-X	TRANSISTOR	
Q3105	2SC3928A/QR/-X	TRANSISTOR	
Q3106	2SC3928A/QR/-X	TRANSISTOR	
Q3107	2SA1530A/QR/-X	TRANSISTOR	
Q3121	2SC4212/Z1/	TRANSISTOR	
Q3122	2SA1530A/QR/-X	TRANSISTOR	
Q3123	2SA1530A/QR/-X	TRANSISTOR	
Q3204	KTC3199/YG/-T	TRANSISTOR	
Q3205	KTC3199/YG/-T	TRANSISTOR	
Q3206	KTA1267/YG/-T	TRANSISTOR	
Q3209	2SA1964/DE/	POW TRANSISTOR	
Q3210	2SC5248/DE/	POW TRANSISTOR	
Q3251	2SA1530A/QR/-X	TRANSISTOR	
Q3252	2SC3928A/QR/-X	TRANSISTOR	
Q3253	2SA1530A/QR/-X	TRANSISTOR	
Q3261	2SA1530A/QR/-X	TRANSISTOR	

⚠Ref No.	Part No.	Part Name	Description	Local
Q3262	2SA1530A/QR/-X	TRANSISTOR		
Q3263	2SA1530A/QR/-X	TRANSISTOR		
Q3264	2SC3928A/QR/-X	TRANSISTOR		
Q3265	2SC3928A/QR/-X	TRANSISTOR		
Q3266	2SC3928A/QR/-X	TRANSISTOR		
D3106	MA111-X	SI DIODE		
D3107	MA111-X	SI DIODE		
D3108	MA3075/H/-X	Z DIODE		
D3109	MA3051/H/-X	Z DIODE		
D3110	MA111-X	SI DIODE		
D3111	MA3051/H/-X	Z DIODE		
D3112	MA111-X	SI DIODE		
D3113	MA3051/H/-X	Z DIODE		
D3114	MA111-X	SI DIODE		
D3115	EU01N-T2	SI DIODE		
D3116	EU01N-T2	SI DIODE		
D3117	EU01N-T2	SI DIODE		
D3121	1N4003-T2	SI DIODE		
D3122	1N4003-T2	SI DIODE		
D3123	1N4003-T2	SI DIODE		
D3127	MA111-X	SI DIODE		
D3128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D3201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D3202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D3203	RGP10J-5025-T3	SI DIODE		
D3204	RGP10J-5025-T3	SI DIODE		
C3101	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C3102	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3107	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3108	QETM2EM-336	E CAPACITOR	33uF 250V M	
C3110	QCZ0131-222	C CAPACITOR	2200pF 2kV K	
C3114	QCS31HJ-151Z	C CAPACITOR	150pF 50V J	
C3115	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3121	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C3123	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
C3204	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C3205	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C3206	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3207	QCS31HJ-5R0Z	C CAPACITOR	5pF 50V J	
C3209	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3211	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C3212	QCB32HK-472Z	C CAPACITOR	4700pF 500V K	
C3213	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3214	QETN2CM-106Z	E CAPACITOR	10uF 160V M	
C3215	QCB32HK-472Z	C CAPACITOR	4700pF 500V K	
C3216	QETN2CM-106Z	E CAPACITOR	10uF 160V M	
C3217	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3218	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3219	QETN1AM-337Z	E CAPACITOR	330uF 10V M	
C3220	QCS32HJ-680Z	C CAPACITOR	68pF 500V J	
C3251	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
C3252	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3253	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3264	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3265	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3266	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3267	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
R3101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3103	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3104	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3107	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3110	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3111	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3112	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3113	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3114	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3116	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R3121	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K	
R3122	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K	
R3123	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K	
R3125	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3126	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J	
R3128	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3129	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3150	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R3152	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3166	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R3170	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K	
R3171	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R3172	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
⚠R3175	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K	
R3176	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	
R3177	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3178	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3179	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3212	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3214	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3215	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R3216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠R3217	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3221	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3222	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3224	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3225	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J	
R3226	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J	
R3227	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3228	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3229	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J	
R3230	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J	
R3231	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R3232	QRE121J-121Y	C RESISTOR	120Ω 1/2W J	
R3233	QRL029J-391	OMF RESISTOR	390Ω 2W J	
R3251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3252	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3254	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3255	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3256	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3257	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3258	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3259	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3260	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3261	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3263	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3264	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3265	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3266	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3268	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3269	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3270	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3271	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3272	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3274	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3275	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
L3121	QQL244J-5R6Z	COIL	5.6uH J	
L3251	QQL244K-150Z	PEAKING COIL	15uH K	
CL3001	QZW0028-002	WIRE CLAMP		
DL3261	CE41925-001	DELAY LINE		
DL3262	CE41925-001	DELAY LINE		
DL3263	CE41925-001	DELAY LINE		
⚠FR3201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J	
K3201	CE41492-001Z	CHOKE COIL		
K3202	CE41492-001Z	CHOKE COIL		
K3203	CE41492-001Z	CHOKE COIL		
K3204	CE41492-001Z	CHOKE COIL		
K3205	QQR1113-001Z	FERRITE BEADS		
⚠SK3001	QNZ0536-001	CRT SOCKET		
W3019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC8481	LA6515	IC		
IC8801	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8481	2SC3928A/QR/-X	TRANSISTOR		
Q8801	2SA1530A/QR/-X	TRANSISTOR		
D8801	MA111-X	SI DIODE		

⚠Ref No.	Part No.	Part Name	Description Local
D8802	P1241-04	PHOTO CONDUCTOR	
D8803	LH22440-T16	LED	POWER
C8481	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C8482	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C8483	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C8484	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C8485	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C8487	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C8660	QETM1VM-108	E CAPACITOR	1000uF 35V M
C8661	QETM1VM-108	E CAPACITOR	1000uF 35V M
C8801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C8802	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C8803	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C8815	QETN1CM-107Z	E CAPACITOR	100uF 16V M
⚠C8901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
R8482	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R8483	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R8484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8485	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8486	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R8487	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R8488	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R8489	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R8491	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8492	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8495	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R8497	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R8499	QRE121J-561Y	C RESISTOR	560Ω 1/2W J
R8801	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R8802	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R8803	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R8805	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R8807	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R8808	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R8809	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8810	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8811	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R8812	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R8813	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8815	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R8816	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R8817	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8818	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8819	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R8826	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
⚠R8901	QRZ0111-474	C RESISTOR	470kΩ 1/2W K
L8401	QQL244K-820Z	PEAKING COIL	82uH K
⚠F8901	QMF51E2-4R0J4	FUSE	4A AC250V
FC8901	CEMG002-001Z	FUSE CLIP	(x2)
J8302	QNN0279-003	PIN JACK	VIDEO3 V IN
J8303	QNN0279-002	PIN JACK	VIDEO3 L IN
J8304	QNN0279-001	PIN JACK	VIDEO3 R IN
J8801	QNS0155-001	3.5 JACK	HEADPHONE
⚠LF8901	QQR1356-001	LINE FILTER	
S8801	QSW0619-003Z	TACT SWITCH	CH+
S8802	QSW0619-003Z	TACT SWITCH	CH-
S8803	QSW0619-003Z	TACT SWITCH	MENU
S8804	QSW0619-003Z	TACT SWITCH	TV/VIDEO
S8805	QSW0619-003Z	TACT SWITCH	VOL+
S8806	QSW0619-003Z	TACT SWITCH	VOL-
⚠S8901	QSW0750-001	PUSH SWITCH	POWER
⚠VA8901	QAF0052-621	VARISTOR	620V
Y8401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
	CM35921-005-H	CDS HOLDER	
	CM36626-B01-H	LED HOLDER	

PRINTED WIRING BOARD PARTS LIST [AV-29VT31/P]

MAIN P.W. BOARD ASS'Y (SCH-1178A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1301	TDA9181T/N1-X	IC		
IC1401	LA78041	IC		
IC1461	JLC1562BF-X	IC		
IC1480	UPC358G2-XE	IC		
IC1601	MSP3445GQGB8V3X	IC		
IC1602	NJW1136GL1-W	IC		
IC1650	AN7585	IC		
IC1701	TDA9386N23I1265	IC (MCU)		
IC1702	AT24WC08-29VS21	IC	(SERVICE)	
IC1801	MM1492AF	IC		
IC1901	STR-F6256S-F7	IC		
IC1951	SE135N	IC		
IC1972	MM1563DF-X	IC		
IC1973	L7812CP	IC		
IC1974	MM1565AF-X	IC		
IC1975	PQ090RD01SZ	IC		
Q1101	2SC5083/L-P/-T	TRANSISTOR		
Q1106	2SA1530A/QR/-X	TRANSISTOR		
Q1108	2SC3928A/QR/-X	TRANSISTOR		
Q1150	2SC3928A/QR/-X	TRANSISTOR		
Q1301	2SA1530A/QR/-X	TRANSISTOR		
Q1302	2SA1530A/QR/-X	TRANSISTOR		
Q1303	UN2212-X	DIGI TRANSISTOR		
Q1304	2SC3928A/QR/-X	TRANSISTOR		
Q1480	2SD1913(RS)	TRANSISTOR		
Q1521	BSN304-T	TRANSISTOR		
⚠Q1522	2SD2634-YD	TRANSISTOR	H OUT	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		
Q1592	UN2212-X	DIGI TRANSISTOR		
Q1660	2SC3928A/QR/-X	TRANSISTOR		
Q1661	2SC3928A/QR/-X	TRANSISTOR		
Q1662	DTC323TK-X	DIGI TRANSISTOR		
Q1663	UN2212-X	DIGI TRANSISTOR		
Q1683	2SA1530A/QR/-X	TRANSISTOR		
Q1684	2SA1530A/QR/-X	TRANSISTOR		
Q1685	DTC323TK-X	DIGI TRANSISTOR		
Q1686	DTC323TK-X	DIGI TRANSISTOR		
Q1701	2SA1530A/QR/-X	TRANSISTOR		
Q1702	2SA1530A/QR/-X	TRANSISTOR		
Q1720	2SA1530A/QR/-X	TRANSISTOR		
Q1801	DTC323TK-X	DIGI TRANSISTOR		
Q1802	DTC323TK-X	DIGI TRANSISTOR		
Q1803	2SA1530A/QR/-X	TRANSISTOR		
Q1804	KTC3199/YG/-T	TRANSISTOR		
Q1860	2SC3928A/QR/-X	TRANSISTOR		
Q1861	2SA1530A/QR/-X	TRANSISTOR		
Q1862	2SA1530A/QR/-X	TRANSISTOR		
Q1901	2SC3852A	POW TRANSISTOR		
Q1951	2SA1013/RO/-T	TRANSISTOR		
Q1952	2SC3928A/QR/-X	TRANSISTOR		
Q1953	2SC3928A/QR/-X	TRANSISTOR		
Q1954	2SC3928A/QR/-X	TRANSISTOR		
Q1955	2SC3928A/QR/-X	TRANSISTOR		
D1101	1SS268-X	SI DIODE		
D1301	MTZJ5.1B-T2	Z DIODE		
D1401	RGP10J-5025-T3	SI DIODE		
D1402	MTZJ75-T2	Z DIODE		
D1405	1N4003-T2	SI DIODE		
D1408	MA111-X	SI DIODE		
D1480	MTZJ4.3A-T2	Z DIODE		
D1521	RH3G-F1	SI DIODE		
D1522	31DF6N-FC5	SI DIODE		
D1523	RGP10J-5025-T3	SI DIODE		
D1541	RGP10J-5025-T3	SI DIODE		
D1551	EU2-T3	SI DIODE		
D1553	RGP10J-5025-T3	SI DIODE		
D1554	RGP10J-5025-T3	SI DIODE		
D1592	MA3075/H/-X	Z DIODE		
D1651	MA3330/L/-X	Z DIODE		
D1652	MA3330/L/-X	Z DIODE		
D1653	MA3330/L/-X	Z DIODE		
D1655	MA111-X	SI DIODE		
D1656	MA111-X	SI DIODE		
D1657	MA111-X	SI DIODE		
D1701	MA111-X	SI DIODE		
D1702	MA3020-X	Z DIODE		
D1703	MA3036-X	Z DIODE		
D1730	MA111-X	SI DIODE		
D1731	MA111-X	SI DIODE		
D1732	MA111-X	SI DIODE		
D1733	MA111-X	SI DIODE		
D1801	MA3120/M/-X	Z DIODE		
D1802	MA3120/M/-X	Z DIODE		
D1901	GSIB460	BRIDGE DIODE		
D1902	MTZJ33B-T2	Z DIODE		
D1906	MTZJ27B-T2	Z DIODE		
D1907	MTZJ33B-T2	Z DIODE		
D1908	MA3200/M/-X	Z DIODE		
D1909	1SS133-T2	SI DIODE		
D1911	RGP10J-5025-T3	SI DIODE		
D1912	RGP10J-5025-T3	SI DIODE		
D1913	RGP10M-5010-T3	SI DIODE		
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D1915	MTZJ39B-T2	Z DIODE		
D1916	MTZJ15B-T2	Z DIODE		
D1917	1SS133-T2	SI DIODE		
D1919	1SS133-T2	SI DIODE		
D1920	MTZJ15B-T2	Z DIODE		
D1950	RGP10J-5025-T3	SI DIODE		
D1952	FSF05A20	SI DIODE		
D1953	RGP10J-5025-T3	SI DIODE		
D1954	RU30A-F1	SI DIODE		
D1955	1SR35-400A-T2	SI DIODE		
D1956	31DF6N-FC5	SI DIODE		
D1958	MTZJ5.1A-T2	Z DIODE		
D1960	MA111-X	SI DIODE		
D1961	MA111-X	SI DIODE		
D1964	MA3330/L/-X	Z DIODE		
D1966	MA3047/L/-X	Z DIODE		
D1968	MA111-X	SI DIODE		
D1969	MA111-X	SI DIODE		
D1970	MTZJ9.1B-T2	Z DIODE		
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1150	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1151	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
⚠C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
⚠C1524	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C1527	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description Local
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1606	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1607	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1608	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1609	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1612	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1617	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1619	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1620	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1621	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1628	NCB21HK-823X	C CAPACITOR	0.082uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1642	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1657	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1658	QETM1VM-228	E CAPACITOR	2200uF 35V M
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
⚠C1902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1969	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M

⚠Ref No.	Part No.	Part Name	Description Local
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
⚠C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1150	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1152	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R1153	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R1154	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
⚠R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
⚠R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J

⚠Ref No.	Part No.	Part Name	Description Local
⚠R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1593	NRSA02F-392X	MG RESISTOR	3.9kΩ 1/10W F
R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1602	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R1603	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1604	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1631	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J
R1632	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J
R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1651	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1652	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1658	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1659	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1667	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R1668	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1669	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1695	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J

⚠Ref No.	Part No.	Part Name	Description Local
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1817	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
⚠R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R1958	QRL039J-680	OMF RESISTOR	68Ω 3W J
R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1969	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
⚠R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L1101	QQLZ014-R82	COIL	0.82uH 100mA L
L1102	QQL244K-180Z	PEAKING COIL	18uH K
L1301	QQL244K-221Z	PEAKING COIL	220uH K
L1401	QQL26AK-220Z	CHOKE COIL	22uH K
L1480	QQR1138-001	CHOKE COIL	
L1523	QQR1243-001	LINIARITY COIL	
L1541	QQL244K-220Z	PEAKING COIL	22uH K
L1601	QQL244K-4R7Z	PEAKING COIL	4.7uH K
L1701	QQL244K-100Z	PEAKING COIL	10uH K
L1702	QQL244K-100Z	PEAKING COIL	10uH K
L1731	QQL244J-101Z	PEAKING COIL	100uH J
L1951	QQLZ034-460	HEATER CHOKE	46uH
L1953	QQL244J-5R6Z	COIL	5.6uH J
L1954	QQL26AK-820Z	CHOKE COIL	82uH K
T1521	QQR1229-001	DRIVE TRANSF	
⚠T1901	QQS0238-001	SW TRANSF	
⚠PC1901	PC123F2	PHOTO COUPLER	
CF1103	QAX0639-001Z	C TRAP	4.500MHz
⚠CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
⚠CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
J1801	QNZ0454-001	AV JACK	VIDEO1 IN
J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
J1804	QNN0349-001	PIN JACK	OUTPUT
J1805	QNS0100-001	3.5 JACK	BASS SPEAKER OUT
K1101	QQR1114-001Z	FERRITE BEADS	
K1704	QQR0582-001Z	FERRITE BEADS	
K1706	QQR1113-001Z	FERRITE BEADS	
K1901	QQR1214-001Y	FERRITE BEADS	
K1902	QQR1214-001Y	FERRITE BEADS	
K1903	QQR1214-001Y	FERRITE BEADS	
K1904	QQR1113-001Z	FERRITE BEADS	
K1905	QQR1113-001Z	FERRITE BEADS	
K1906	QQR1113-001Z	FERRITE BEADS	
K1952	QQR1214-001Y	FERRITE BEADS	
K1953	QQR1214-001Y	FERRITE BEADS	
K1954	QQR1214-001Y	FERRITE BEADS	
K1955	QQR1214-001Y	FERRITE BEADS	
⚠LF1901	QQR1356-001	LINE FILTER	
⚠RY1901	QSK0061-001	RELAY	
SF1101	QAX0663-001	SAW FILTER	
SF1102	QAX0731-001	SAW FILTER	
⚠TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
TU1001	QAU0331-001	TUNER	
W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1601	CE42546-001Z	CRYSTAL	
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-29VT11/T]

MAIN P.W. BOARD ASS'Y (SCH-1176A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1301	TDA9181T/N1-X	IC		
IC1401	LA78041	IC		
IC1461	JLC1562BF-X	IC		
IC1480	UPC358G2-XE	IC		
IC1601	MSP3445GQGB8V3X	IC		
IC1602	NJW1136GL1-W	IC		
IC1650	AN5277	IC		
IC1701	TDA9386N23I1265	IC (MCU)		
IC1702	AT24WC08-29VS21	IC	(SERVICE)	
IC1801	MM1492AF	IC		
IC1901	STR-F6256S-F7	IC		
IC1951	SE135N	IC		
IC1972	MM1563DF-X	IC		
IC1973	L7812CP	IC		
IC1974	MM1565AF-X	IC		
IC1975	PQ090RD01SZ	IC		
Q1101	2SC5083/L-P/-T	TRANSISTOR		
Q1106	2SA1530A/QR/-X	TRANSISTOR		
Q1108	2SC3928A/QR/-X	TRANSISTOR		
Q1150	2SC3928A/QR/-X	TRANSISTOR		
Q1301	2SA1530A/QR/-X	TRANSISTOR		
Q1302	2SA1530A/QR/-X	TRANSISTOR		
Q1303	UN2212-X	DIGI TRANSISTOR		
Q1304	2SC3928A/QR/-X	TRANSISTOR		
Q1480	2SD1913(RS)	TRANSISTOR		
Q1521	BSN304-T	TRANSISTOR		
⚠Q1522	2SD2634-YD	TRANSISTOR	H OUT	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		
Q1592	UN2212-X	DIGI TRANSISTOR		
Q1660	2SC3928A/QR/-X	TRANSISTOR		
Q1661	2SC3928A/QR/-X	TRANSISTOR		
Q1683	2SA1530A/QR/-X	TRANSISTOR		
Q1684	2SA1530A/QR/-X	TRANSISTOR		
Q1685	DTC323TK-X	DIGI TRANSISTOR		
Q1686	DTC323TK-X	DIGI TRANSISTOR		
Q1701	2SA1530A/QR/-X	TRANSISTOR		
Q1702	2SA1530A/QR/-X	TRANSISTOR		
Q1720	2SA1530A/QR/-X	TRANSISTOR		
Q1801	DTC323TK-X	DIGI TRANSISTOR		
Q1802	DTC323TK-X	DIGI TRANSISTOR		
Q1803	2SA1530A/QR/-X	TRANSISTOR		
Q1804	KTC3199/YG/-T	TRANSISTOR		
Q1860	2SC3928A/QR/-X	TRANSISTOR		
Q1861	2SA1530A/QR/-X	TRANSISTOR		
Q1862	2SA1530A/QR/-X	TRANSISTOR		
Q1901	2SC3852A	POW TRANSISTOR		
Q1951	2SA1013/RO/-T	TRANSISTOR		
Q1952	2SC3928A/QR/-X	TRANSISTOR		
Q1953	2SC3928A/QR/-X	TRANSISTOR		
Q1954	2SC3928A/QR/-X	TRANSISTOR		
Q1955	2SC3928A/QR/-X	TRANSISTOR		
D1101	1SS268-X	SI DIODE		
D1301	MTZJ5.1B-T2	Z DIODE		
D1401	RGP10J-5025-T3	SI DIODE		
D1402	MTZJ75-T2	Z DIODE		
D1405	1N4003-T2	SI DIODE		
D1408	MA111-X	SI DIODE		
D1480	MTZJ4.3A-T2	Z DIODE		
D1521	RH3G-F1	SI DIODE		
D1522	31DF6N-FC5	SI DIODE		
D1523	RGP10J-5025-T3	SI DIODE		
D1541	RGP10J-5025-T3	SI DIODE		
D1551	EU2-T3	SI DIODE		
D1553	RGP10J-5025-T3	SI DIODE		
D1554	RGP10J-5025-T3	SI DIODE		
D1592	MA3075/H/-X	Z DIODE		
D1652	MA3330/L/-X	Z DIODE		
D1653	MA3330/L/-X	Z DIODE		
D1655	MA111-X	SI DIODE		
D1657	MA111-X	SI DIODE		
D1701	MA111-X	SI DIODE		
D1702	MA3020-X	Z DIODE		
D1703	MA3036-X	Z DIODE		
D1730	MA111-X	SI DIODE		
D1731	MA111-X	SI DIODE		
D1732	MA111-X	SI DIODE		
D1733	MA111-X	SI DIODE		
D1801	MA3120/M/-X	Z DIODE		
D1802	MA3120/M/-X	Z DIODE		
D1901	GSIB460	BRIDGE DIODE		

⚠Ref No.	Part No.	Part Name	Description	Local
D1902	MTZJ33B-T2	Z DIODE		
D1906	MTZJ27B-T2	Z DIODE		
D1907	MTZJ33B-T2	Z DIODE		
D1908	MA3200/M/-X	Z DIODE		
D1909	1SS133-T2	SI DIODE		
D1911	RGP10J-5025-T3	SI DIODE		
D1912	RGP10J-5025-T3	SI DIODE		
D1913	RGP10M-5010-T3	SI DIODE		
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D1915	MTZJ39B-T2	Z DIODE		
D1916	MTZJ15B-T2	Z DIODE		
D1917	1SS133-T2	SI DIODE		
D1919	1SS133-T2	SI DIODE		
D1920	MTZJ15B-T2	Z DIODE		
D1950	RGP10J-5025-T3	SI DIODE		
D1952	FSF05A20	SI DIODE		
D1953	RGP10J-5025-T3	SI DIODE		
D1954	RU30A-F1	SI DIODE		
D1955	1SR35-400A-T2	SI DIODE		
D1956	31DF6N-FC5	SI DIODE		
D1958	MTZJ5.1A-T2	Z DIODE		
D1960	MA111-X	SI DIODE		
D1961	MA111-X	SI DIODE		
D1964	MA3330/L/-X	Z DIODE		
D1966	MA3047/L/-X	Z DIODE		
D1968	MA111-X	SI DIODE		
D1969	MA111-X	SI DIODE		
D1970	MTZJ9.1B-T2	Z DIODE		
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1150	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1151	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
⚠C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
⚠C1524	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C1527	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	

⚠Ref No.	Part No.	Part Name	Description Local
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1603	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1606	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1607	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C1608	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1609	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1612	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1617	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1619	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1620	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1621	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
⚠C1902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1969	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
⚠C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K

⚠Ref No.	Part No.	Part Name	Description	Local
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1150	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1152	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1153	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R1154	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J	
R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J	
R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J	
R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J	
R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J	
⚠R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	
⚠R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	
R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
⚠R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	
R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J	
R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	
R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J	
R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J	
⚠R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J	
R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F	
R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K	
R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F	
R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J	
R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1602	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1603	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1604	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1651	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1652	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F	
R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J	
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1817	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J	
⚠R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J	
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J	
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J	
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J	
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J	
R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J	
R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J	
R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J	
R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J	
R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J	
R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J	
⚠R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J	
L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K	
L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K	
L1101	QQLZ014-R82	COIL	0.82uH 100mA L	
L1102	QQL244K-180Z	PEAKING COIL	18uH K	
L1301	QQL244K-221Z	PEAKING COIL	220uH K	
L1401	QQL26AK-220Z	CHOKE COIL	22uH K	
L1480	QQR1138-001	CHOKE COIL		
L1523	QQR1243-001	LINIARITY COIL		
L1541	QQL244K-220Z	PEAKING COIL	22uH K	
L1601	QQL244K-4R7Z	PEAKING COIL	4.7uH K	
L1701	QQL244K-100Z	PEAKING COIL	10uH K	
L1702	QQL244K-100Z	PEAKING COIL	10uH K	
L1731	QQL244J-101Z	PEAKING COIL	100uH J	
L1951	QQLZ034-460	HEATER CHOKE	46uH	
L1953	QQL244J-5R6Z	COIL	5.6uH J	
L1954	QQL26AK-820Z	CHOKE COIL	82uH K	
T1521	QQR1229-001	DRIVE TRANSF		
⚠T1901	QQS0226-001	SW TRANSF		
⚠PC1901	PC123F2	PHOTO COUPLER		
CF1103	QAX0639-001Z	C TRAP	4.500MHz	
⚠CP1951	ICP-N75-Y	IC PROTECTOR	2.7A	
⚠CP1952	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP1953	ICP-N38-Y	IC PROTECTOR	1.5A	
J1801	QNZ0454-001	AV JACK	VIDEO1 IN	
J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN	
J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN	
J1804	QNN0349-001	PIN JACK	OUTPUT	
K1101	QQR1114-001Z	FERRITE BEADS		
K1704	QQR0582-001Z	FERRITE BEADS		
K1706	QQR1113-001Z	FERRITE BEADS		
K1901	QQR1214-001Y	FERRITE BEADS		
K1902	QQR1214-001Y	FERRITE BEADS		
K1903	QQR1214-001Y	FERRITE BEADS		
K1904	QQR1113-001Z	FERRITE BEADS		
K1905	QQR1113-001Z	FERRITE BEADS		
K1906	QQR1113-001Z	FERRITE BEADS		
K1952	QQR1214-001Y	FERRITE BEADS		
K1953	QQR1214-001Y	FERRITE BEADS		
K1954	QQR1214-001Y	FERRITE BEADS		
K1955	QQR1214-001Y	FERRITE BEADS		
⚠LF1901	QQR1356-001	LINE FILTER		
⚠RY1901	QSK0061-001	RELAY		
SF1101	QAX0663-001	SAW FILTER		
SF1102	QAX0731-001	SAW FILTER		
⚠TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω	
TU1001	QAU0331-001	TUNER		
W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X1601	CE42546-001Z	CRYSTAL		
X1701	QAX0737-001	CRYSTAL	12.000MHz	
Y1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

CRT SOCKET P.W. BOARD ASS'Y (SCH-3009A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC3101	TDA6107JF/N3	IC		
Q3101	2SC3928A/QR/-X	TRANSISTOR		
Q3102	2SC3928A/QR/-X	TRANSISTOR		
Q3103	2SC3928A/QR/-X	TRANSISTOR		
Q3104	2SC3928A/QR/-X	TRANSISTOR		
Q3105	2SC3928A/QR/-X	TRANSISTOR		
Q3106	2SC3928A/QR/-X	TRANSISTOR		
Q3107	2SA1530A/QR/-X	TRANSISTOR		
Q3121	2SC4212/Z1/	TRANSISTOR		
Q3122	2SA1530A/QR/-X	TRANSISTOR		
Q3123	2SA1530A/QR/-X	TRANSISTOR		
Q3204	KTC3199/YG/-T	TRANSISTOR		
Q3205	KTC3199/YG/-T	TRANSISTOR		
Q3206	KTA1267/YG/-T	TRANSISTOR		
Q3208	KTC3199/YG/-T	TRANSISTOR		
Q3209	2SA1964/DE/	POW TRANSISTOR		
Q3210	2SC5248/DE/	POW TRANSISTOR		
Q3251	2SA1530A/QR/-X	TRANSISTOR		
Q3252	2SC3928A/QR/-X	TRANSISTOR		
Q3253	2SA1530A/QR/-X	TRANSISTOR		

⚠Ref No.	Part No.	Part Name	Description Local
Q3261	2SA1530A/QR/-X	TRANSISTOR	
Q3262	2SA1530A/QR/-X	TRANSISTOR	
Q3263	2SA1530A/QR/-X	TRANSISTOR	
Q3264	2SC3928A/QR/-X	TRANSISTOR	
Q3265	2SC3928A/QR/-X	TRANSISTOR	
Q3266	2SC3928A/QR/-X	TRANSISTOR	
D3106	MA111-X	SI DIODE	
D3107	MA111-X	SI DIODE	
D3108	MA3075/H/-X	Z DIODE	
D3109	MA3051/H/-X	Z DIODE	
D3110	MA111-X	SI DIODE	
D3111	MA3051/H/-X	Z DIODE	
D3112	MA111-X	SI DIODE	
D3113	MA3051/H/-X	Z DIODE	
D3114	MA111-X	SI DIODE	
D3115	EU01N-T2	SI DIODE	
D3116	EU01N-T2	SI DIODE	
D3117	EU01N-T2	SI DIODE	
D3121	1N4003-T2	SI DIODE	
D3122	1N4003-T2	SI DIODE	
D3123	1N4003-T2	SI DIODE	
D3127	MA111-X	SI DIODE	
D3128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3203	RGP10J-5025-T3	SI DIODE	
D3204	RGP10J-5025-T3	SI DIODE	
C3101	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C3102	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3107	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3108	QETM2EM-336	E CAPACITOR	33uF 250V M
C3110	QCZ0131-222	C CAPACITOR	2200pF 2kV K
C3114	QCS31HJ-151Z	C CAPACITOR	150pF 50V J
C3115	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C3121	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3123	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C3204	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C3205	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3207	QCS31HJ-5R0Z	C CAPACITOR	5pF 50V J
C3208	QFLC14J-104Z	M CAPACITOR	0.1uF 100V J
C3209	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3211	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C3212	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3213	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C3214	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3215	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3216	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3217	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3218	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3219	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C3220	QCS32HJ-680Z	C CAPACITOR	68pF 500V J
C3251	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C3252	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3253	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3264	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3265	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3266	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3267	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R3101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3103	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3104	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3106	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3107	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3110	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3111	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3112	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3113	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3114	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R3116	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R3121	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3122	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3123	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3125	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3126	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R3128	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R3129	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R3150	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3152	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3166	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3170	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3171	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3172	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
⚠R3175	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K
R3176	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R3177	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R3178	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3179	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3212	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3214	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3215	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R3216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
⚠R3217	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
R3218	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3219	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3221	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3222	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3224	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3225	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3226	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3227	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3228	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3229	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3230	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3231	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3232	QRE121J-121Y	C RESISTOR	120Ω 1/2W J
R3233	QRL029J-391	OMF RESISTOR	390Ω 2W J
R3251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R3252	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3254	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R3255	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3256	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R3257	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3258	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R3259	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3260	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R3261	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3263	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3264	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3265	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3266	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3268	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3269	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3270	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3271	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3272	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3274	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3275	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
L3121	QQL244J-5R6Z	COIL	5.6uH J
L3251	QQL244K-150Z	PEAKING COIL	15uH K
CL3001	QZW0028-002	WIRE CLAMP	
DL3261	CE41925-001	DELAY LINE	
DL3262	CE41925-001	DELAY LINE	
DL3263	CE41925-001	DELAY LINE	
⚠FR3201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
K3201	CE41492-001Z	CHOKE COIL	
K3202	CE41492-001Z	CHOKE COIL	
K3203	CE41492-001Z	CHOKE COIL	
K3204	CE41492-001Z	CHOKE COIL	
K3205	QQR1113-001Z	FERRITE BEADS	
⚠SK3001	QNZ0536-001	CRT SOCKET	
W3019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W3034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

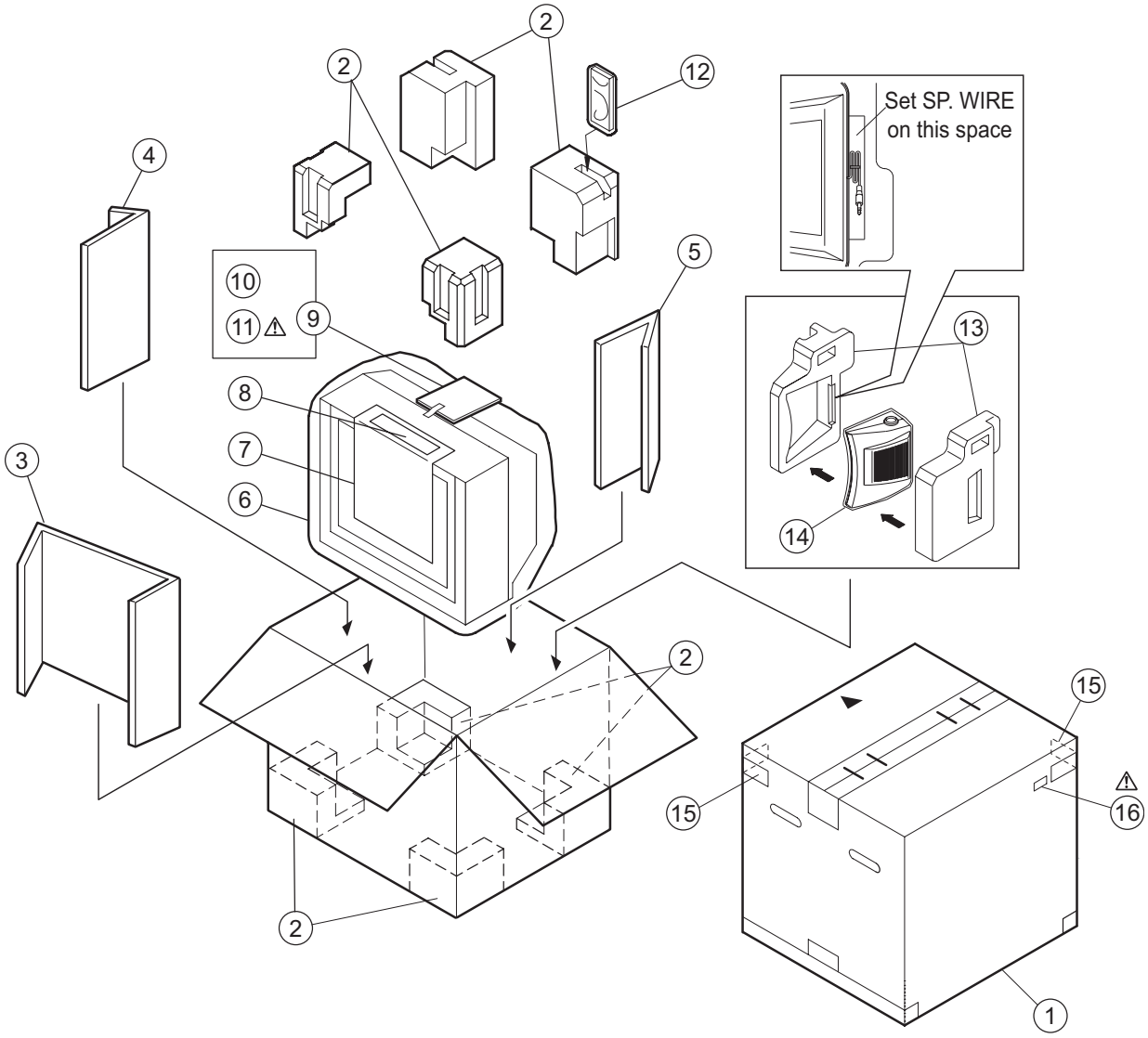
REMOTE CONTROL UNIT PARTS LIST (RM-C1331-1H) [AV-29VT11/P, AV-29VT11/T]

⚠Ref No.	Part No.	Part Name	Description	Local
	R25-8173	BATTERY COVER		

REMOTE CONTROL UNIT PARTS LIST (RM-C1330-1H) [AV-29VT31/P]

⚠Ref No.	Part No.	Part Name	Description	Local
	R25-8173	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10044-065A-H	PACKING CASE		AV-29VT11/P,AV-29VT11/T
	1	GG10044-066A-H	PACKING CASE		AV-29VT31/P
	2	GG10193-001D-H	CUSHION ASS'Y	8pcs in 1set	
	3	GG20011-008A-H	SUPPORT PAD		
	4	GG20011-009A-H	SUPPORT PAD		
	5	GG20011-009A-H	SUPPORT PAD		AV-29VT11/P,AV-29VT11/T
	5	GG20011-010A-H	SUPPORT PAD		AV-29VT31/P
	6	CP30967-004-H	POLY BAG		
	7	LC30946-001A-H	CRT PROTECTOR		
	8	LC30947-002A-H	CAUTION SHEET		
	9	CP30966-001-H	POLY BAG		
	10	----------	BATTERY	AA/R6 (x2)	
⚠	11	GGT0018-001A-H	INST BOOK		AV-29VT11/P,AV-29VT31/P
⚠	11	GGT0019-001B-H	INST BOOK		AV-29VT11/T
	12	RM-C1331-1H	REMOCON UNIT		AV-29VT11/P,AV-29VT11/T
	12	RM-C1330-1H	REMOCON UNIT		AV-29VT31/P
	13	GG10202-001B-H	BASS CUSHION		AV-29VT31/P
	14	CP30967-007-H	POLY BAG		AV-29VT31/P
	15	GG20025-003A-H	CORNER LABEL	(x2)	
⚠	16	GG30037-001A-H	TAIWAN LABEL		AV-29VT11/T

AV-29VT11/P, AV-29VT31/P, AV-29VT11/T
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1) Input signal : Colour bar signal
(2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
(3) Internal resistance of tester : DC 20kΩ/V
(4) Oscilloscope sweeping time : H ⇒ 20μs/div
: V ⇒ 5ms/div
: Others ⇒ Sweeping time is specified
(5) Voltage values : All DC voltage values

∗Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

● Resistance value

No unit	: [Ω]
k	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
AC indicated	: AC withstand voltage [V]
Others	: DC withstand voltage [V]

∗Electrolytic Capacitors
47/50[Example] : Capacitance value [μF]/withstand voltage[V]

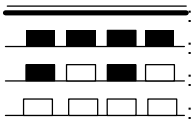
● Type

No indication	: Ceramic capacitor
MY	: Mylar capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3) Coils

No unit	: [μH]
Others	: As specified

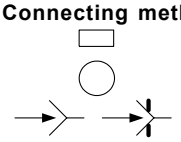
(4) Power Supply



∗Respective voltage values are indicated

(5) Test point

(6) Connecting method



(7) Ground symbol

⊥ : LIVE side ground
⏚ : ISOLATED(NEUTRAL) side ground
⏚ : EARTH ground
▽ : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

SEMICONDUCTOR SHAPES 2-2

BLOCK DIAGRAM 2-3

CIRCUIT DIAGRAMS

- **MAIN PWB CIRCUIT DIAGRAM (1/2)** 2-5
- **MAIN PWB CIRCUIT DIAGRAM (2/2)** 2-7
- **CRT SOCKET PWB CIRCUIT DIAGRAM** 2-9
- **FRONT CONTROL PWB CIRCUIT DIAGRAM** 2-11

PATTERN DIAGRAMS

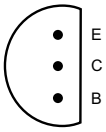
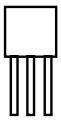
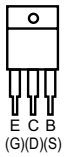
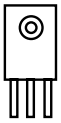
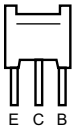
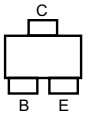
- **MAIN PWB PATTERN** 2-13
- **CRT SOCKER PWB PATTERN** 2-15
- **FRONT CONTROL PWB PATTERN** 2-16

VOLTAGE CHART 2-17

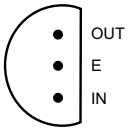
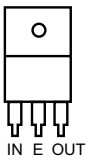
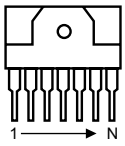
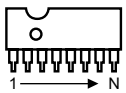
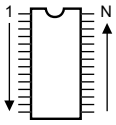
WAVEFORMS 2-18

SEMICONDUCTOR SHAPES

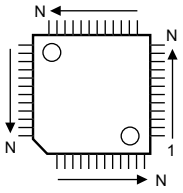
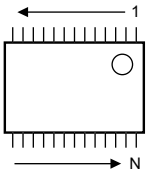
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

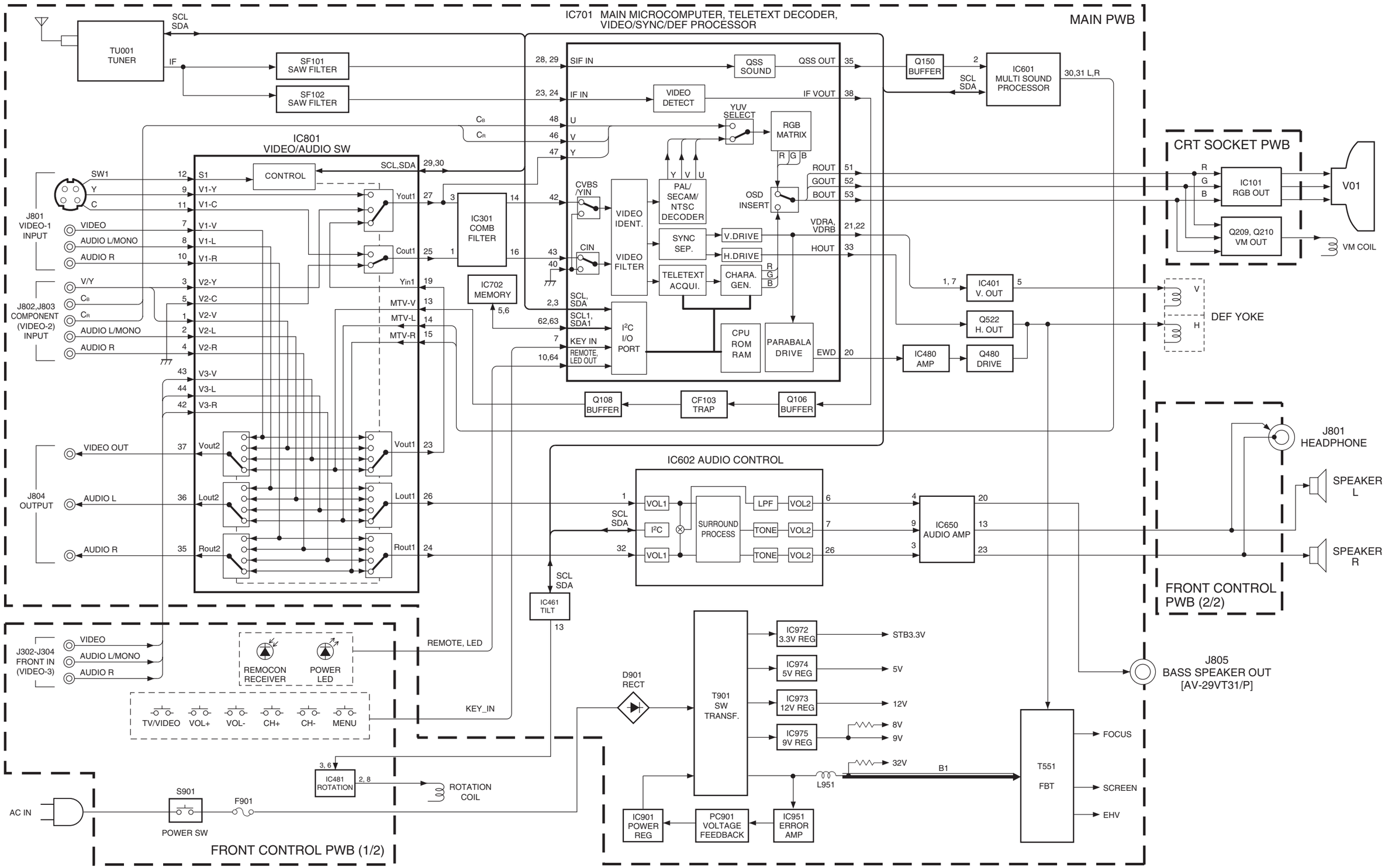
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

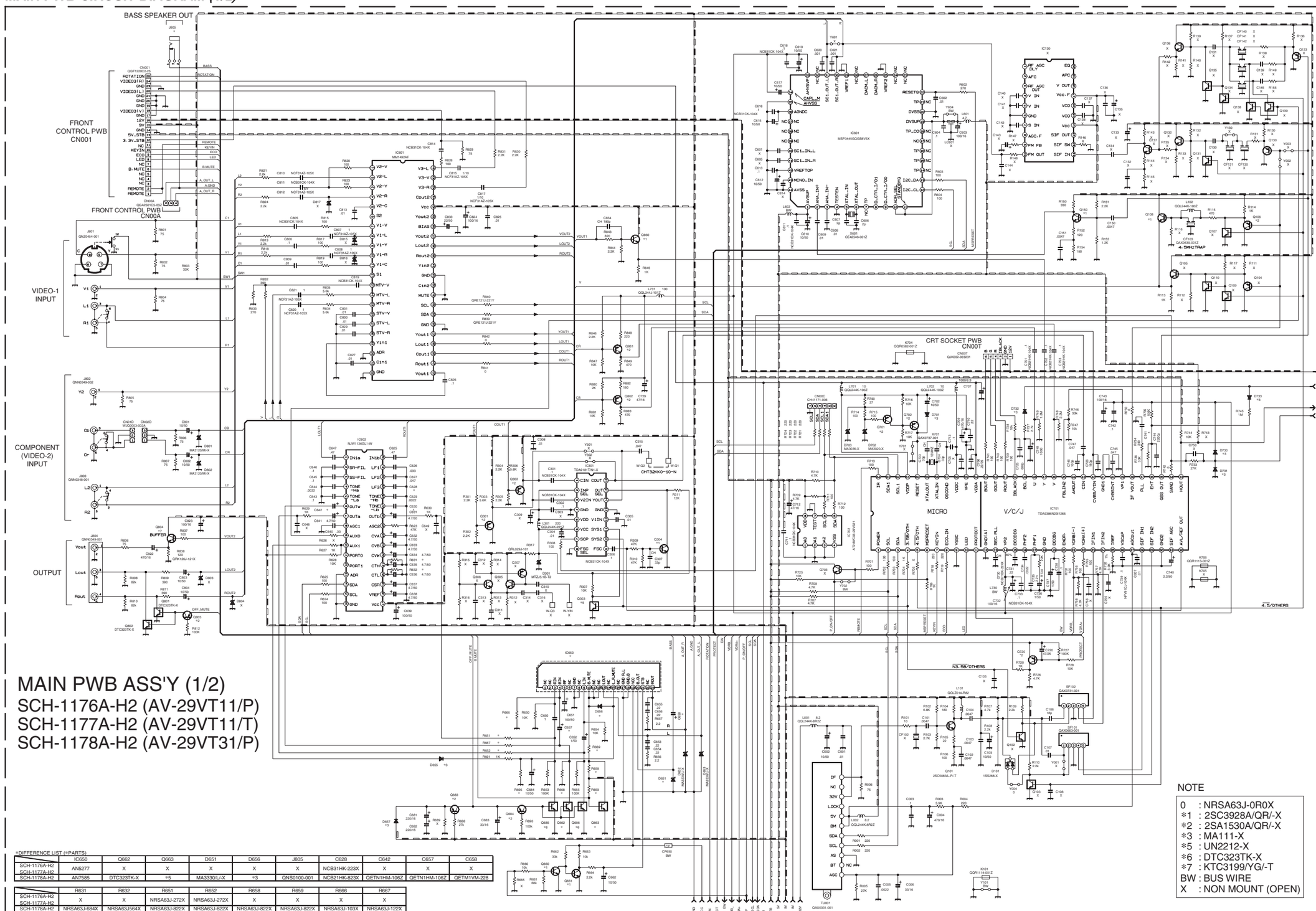
TOP VIEW		
		

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2)



MAIN PWB ASS'Y (1/2)

SCH-1176A-H2 (AV-29VT11/P)
SCH-1177A-H2 (AV-29VT11/T)
SCH-1178A-H2 (AV-29VT31/P)

NOTE

0	: NRSA63J-0R0X
*1	: 2SC3928A/QR/-X
*2	: 2SA1530A/QR/-X
*3	: MA111-X
*5	: UN2212-X
*6	: DTC323TK-X
*7	: KTC3199/YG/-T
BW	: BUS WIRE
X	: NON MOUNT (OPEN)

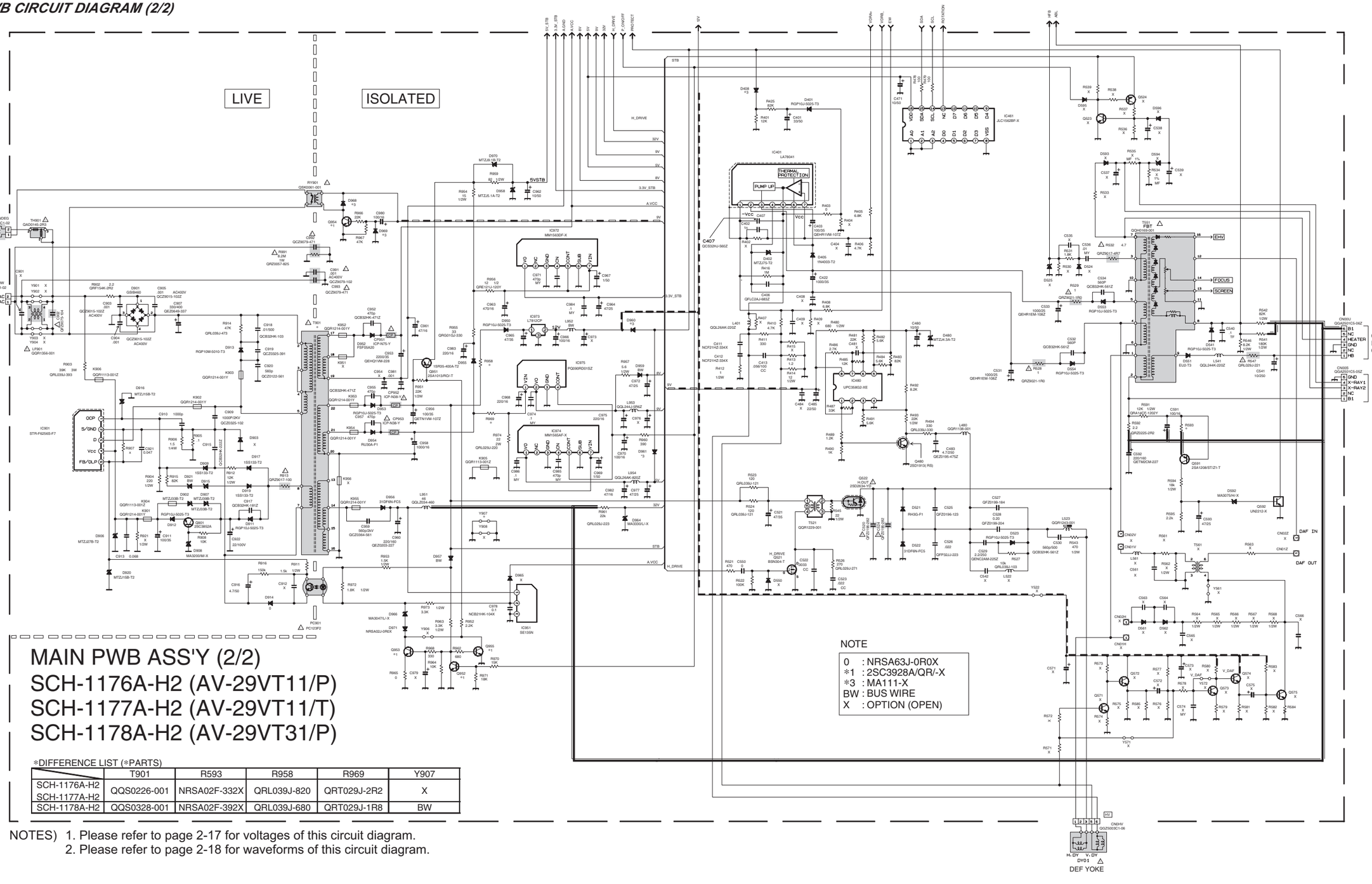
*DIFFERENCE LIST (*PARTS)

	IC650	Q662	Q663	D651	D656	J805	C628	C642	C657	C658
SCH-1176A-H2	AN5277	X	X	X	X	X	NCB31HK-223X	X	X	X
SCH-1177A-H2										
SCH-1178A-H2	AN7585	DTC323TK-X	*5	MA3330/L/-X	*3	QNS0100-001	NCB21HK-823X	QETN1HM-106Z	QETN1HM-106Z	QETM1VM-228

	R631	R632	R651	R652	R658	R659	R666	R667
SCH-1176A-H2	X	X	NRSA63J-272X	NRSA63J-272X	X	X	X	X
SCH-1177A-H2								
SCH-1178A-H2	NRSA63J-684X	NRSA63J-564X	NRSA63J-822X	NRSA63J-822X	NRSA63J-822X	NRSA63J-822X	NRSA63J-103X	NRSA63J-122X

NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM (2/2)



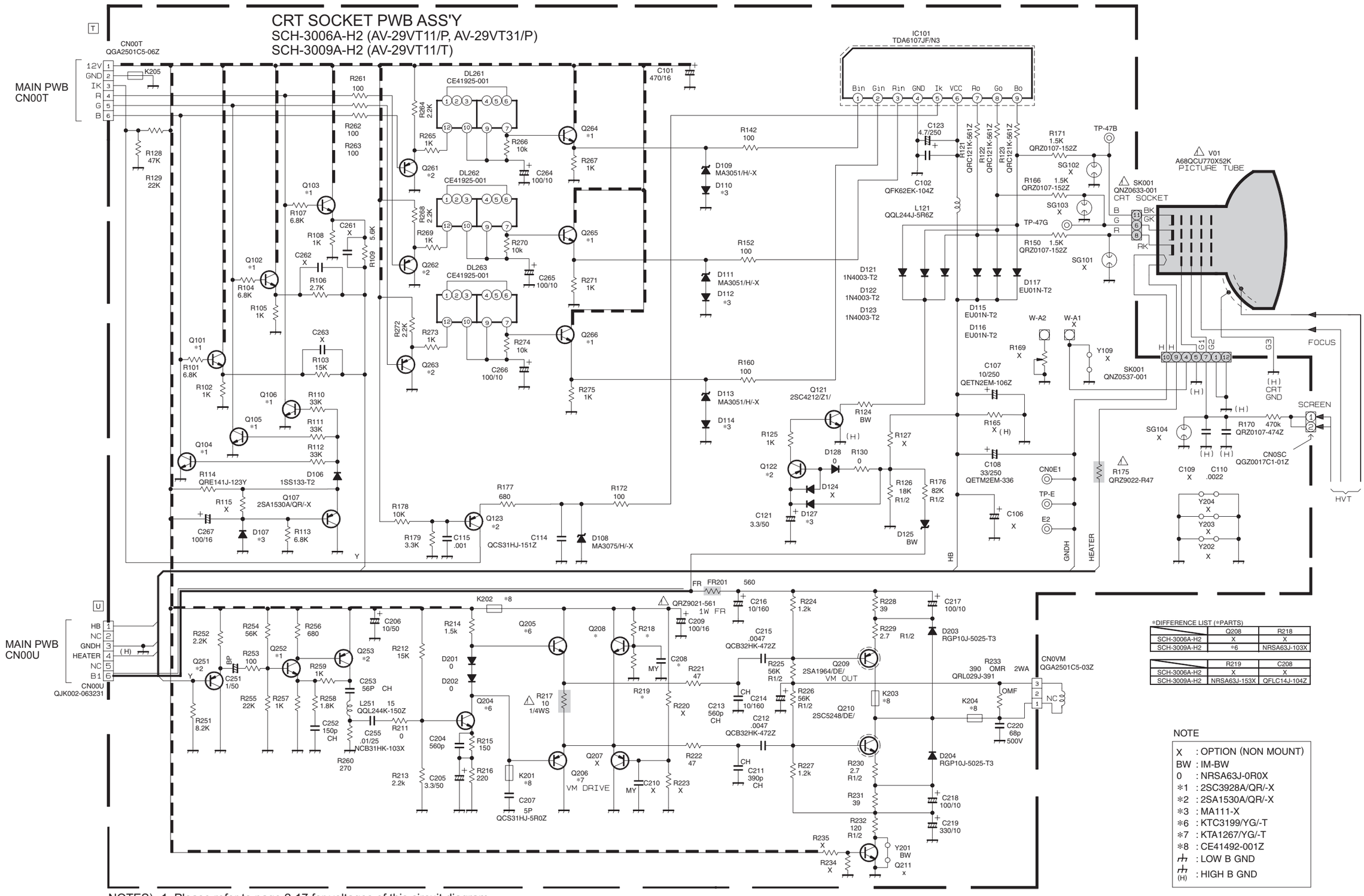
MAIN PWB ASS'Y (2/2)
SCH-1176A-H2 (AV-29VT11/P)
SCH-1177A-H2 (AV-29VT11/T)
SCH-1178A-H2 (AV-29VT31/P)

*DIFFERENCE LIST (*PARTS)

	T901	R593	R958	R969	Y907
SCH-1176A-H2 SCH-1177A-H2	QQS0226-001	NRSA02F-332X	QRL039J-820	QRT029J-2R2	X
SCH-1178A-H2	QQS0328-001	NRSA02F-392X	QRL039J-680	QRT029J-1R8	BW

NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

CRT SOCKET PWB CIRCUIT DIAGRAM



*DIFFERENCE LIST (*PARTS)

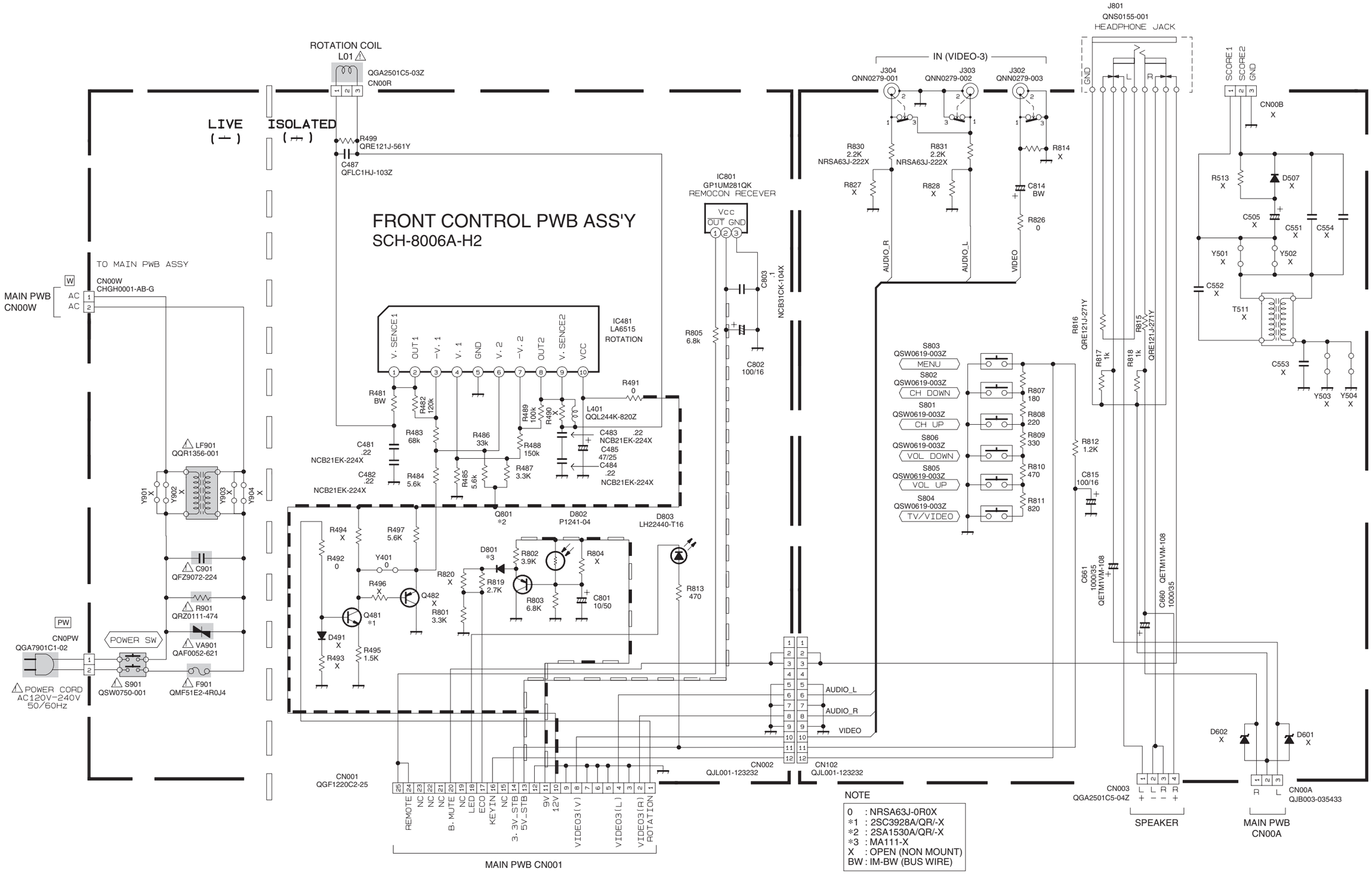
	Q208	R218
SCH-3006A-H2	X	X
SCH-3009A-H2	*6	NRSA63J-103X

	R219	C208
SCH-3006A-H2	X	X
SCH-3009A-H2	NRSA63J-153X	QFLC14J-104Z

NOTE

X : OPTION (NON MOUNT)
BW : IM-BW
0 : NRSA63J-0R0X
*1 : 2SC3928A/QR/-X
*2 : 2SA1530A/QR/-X
*3 : MA111-X
*6 : KTC3199/YG/-T
*7 : KTA1267/YG/-T
*8 : CE41492-001Z
: LOW B GND
(H) : HIGH B GND

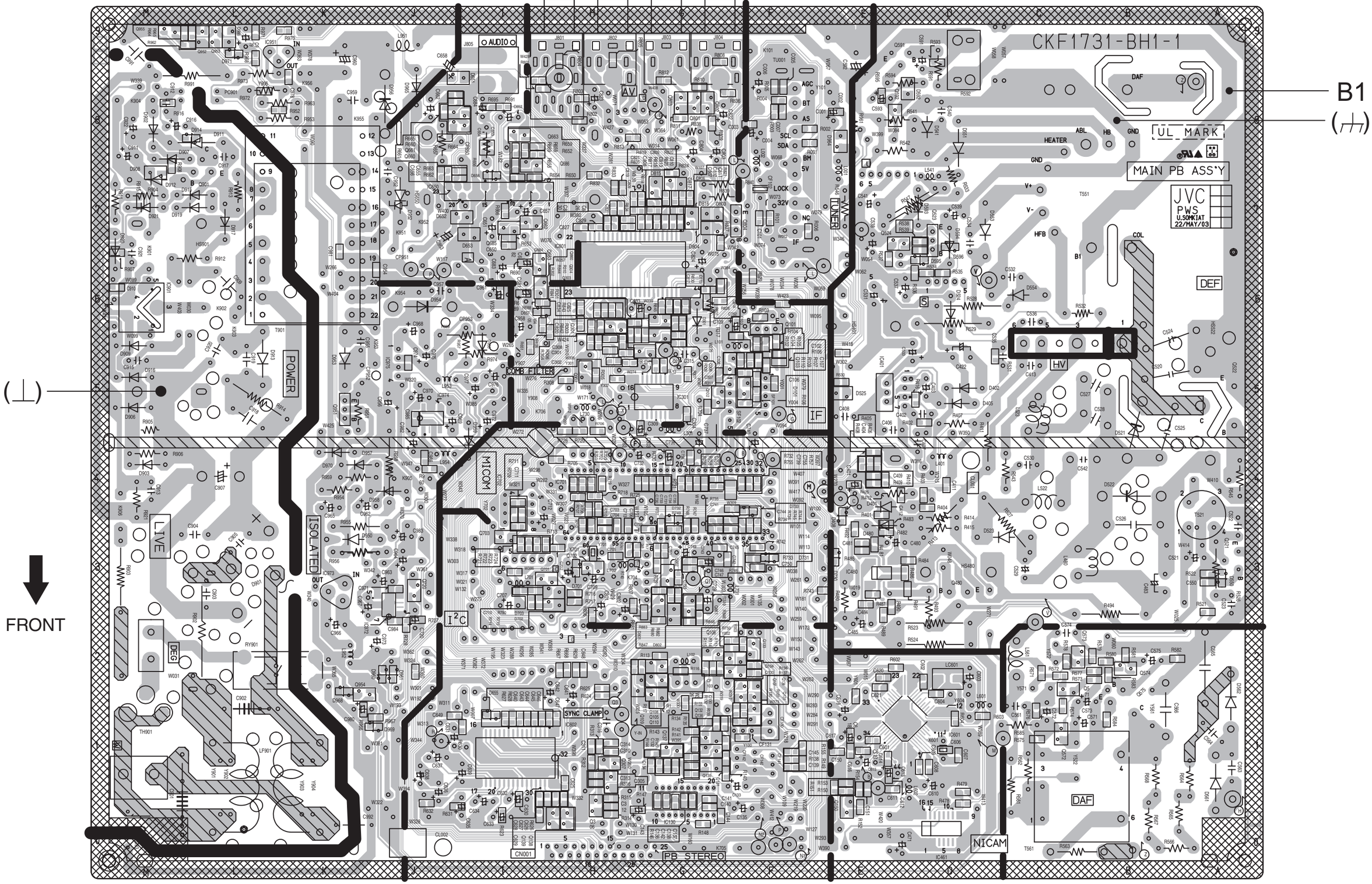
FRONT CONTROL PWB CIRCUIT DIAGRAM



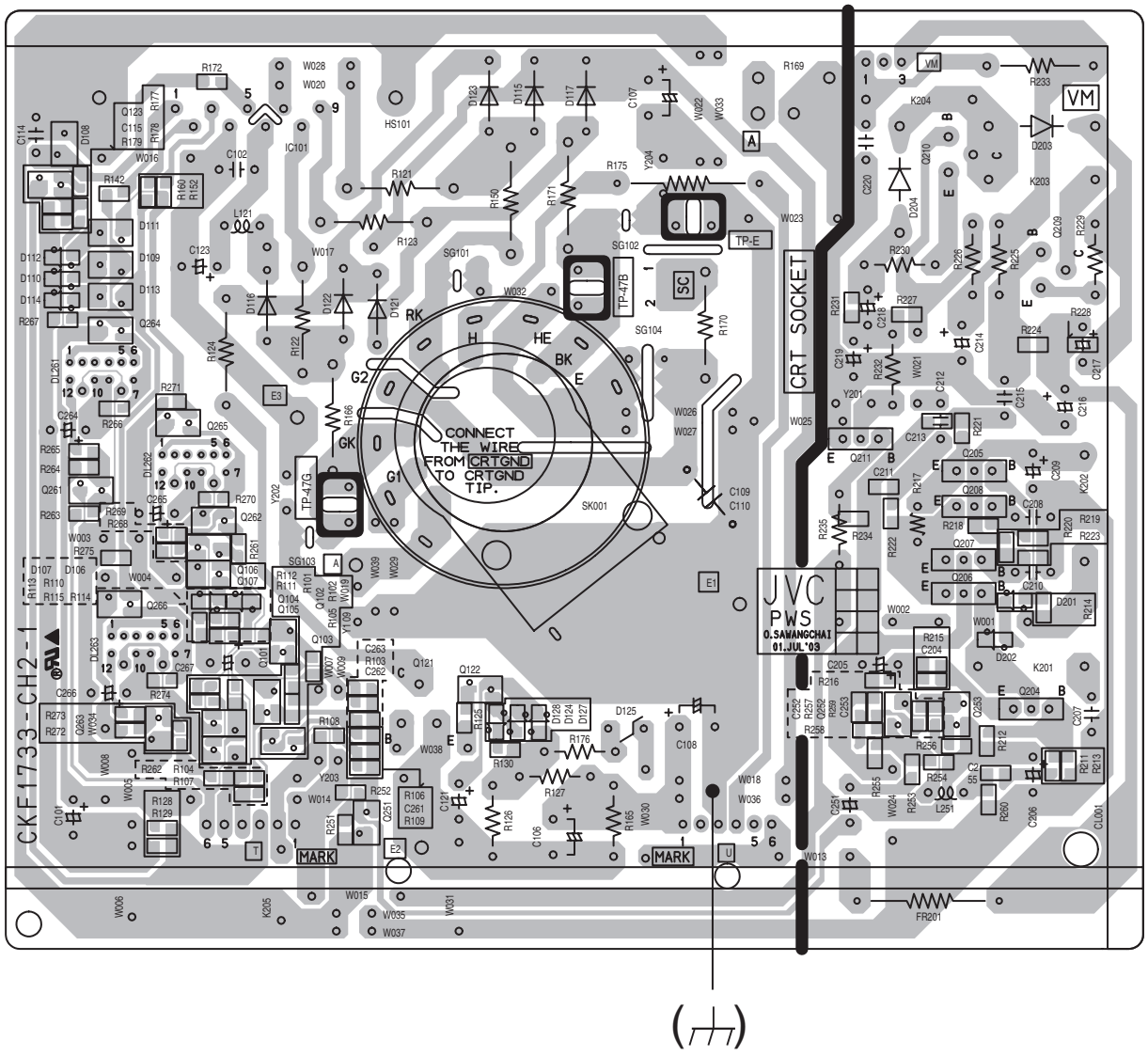
NOTE) Please refer to page 2-17 for voltages of this circuit diagram.

PATTERN DIAGRAM

MAIN PWB PATTERN

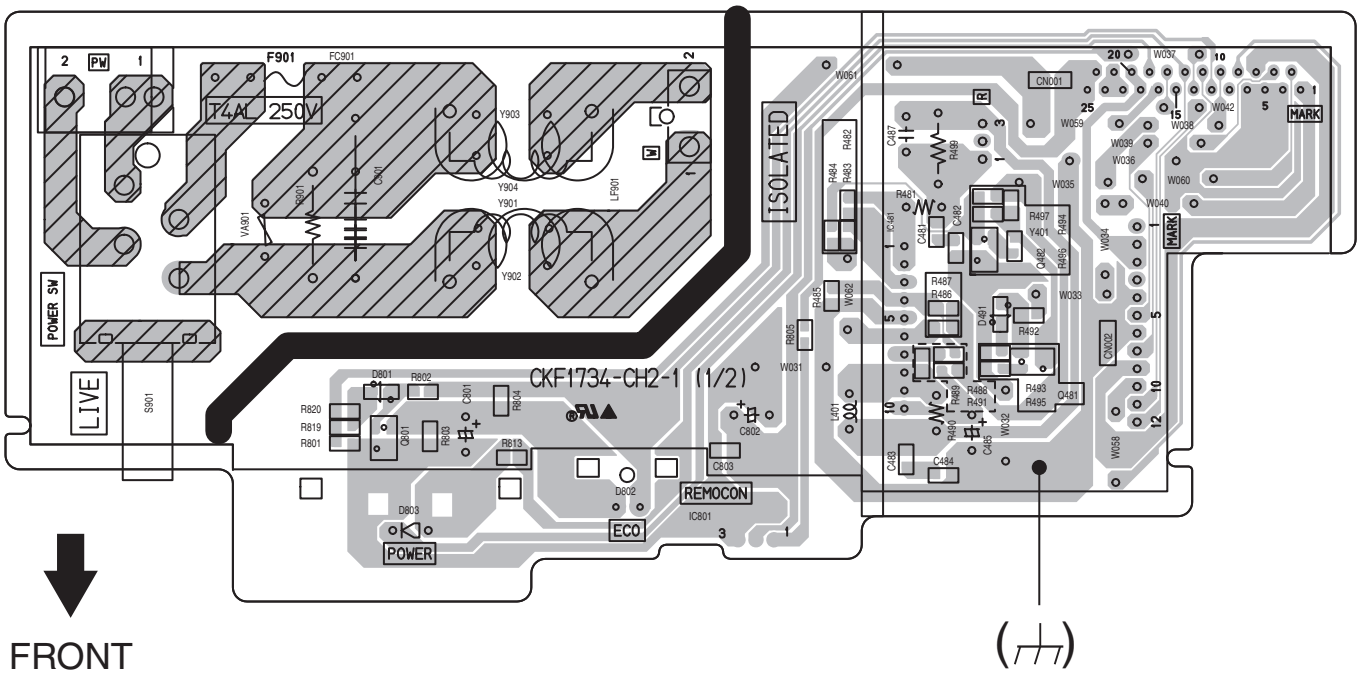


CRT SOCKET PWB PATTERN

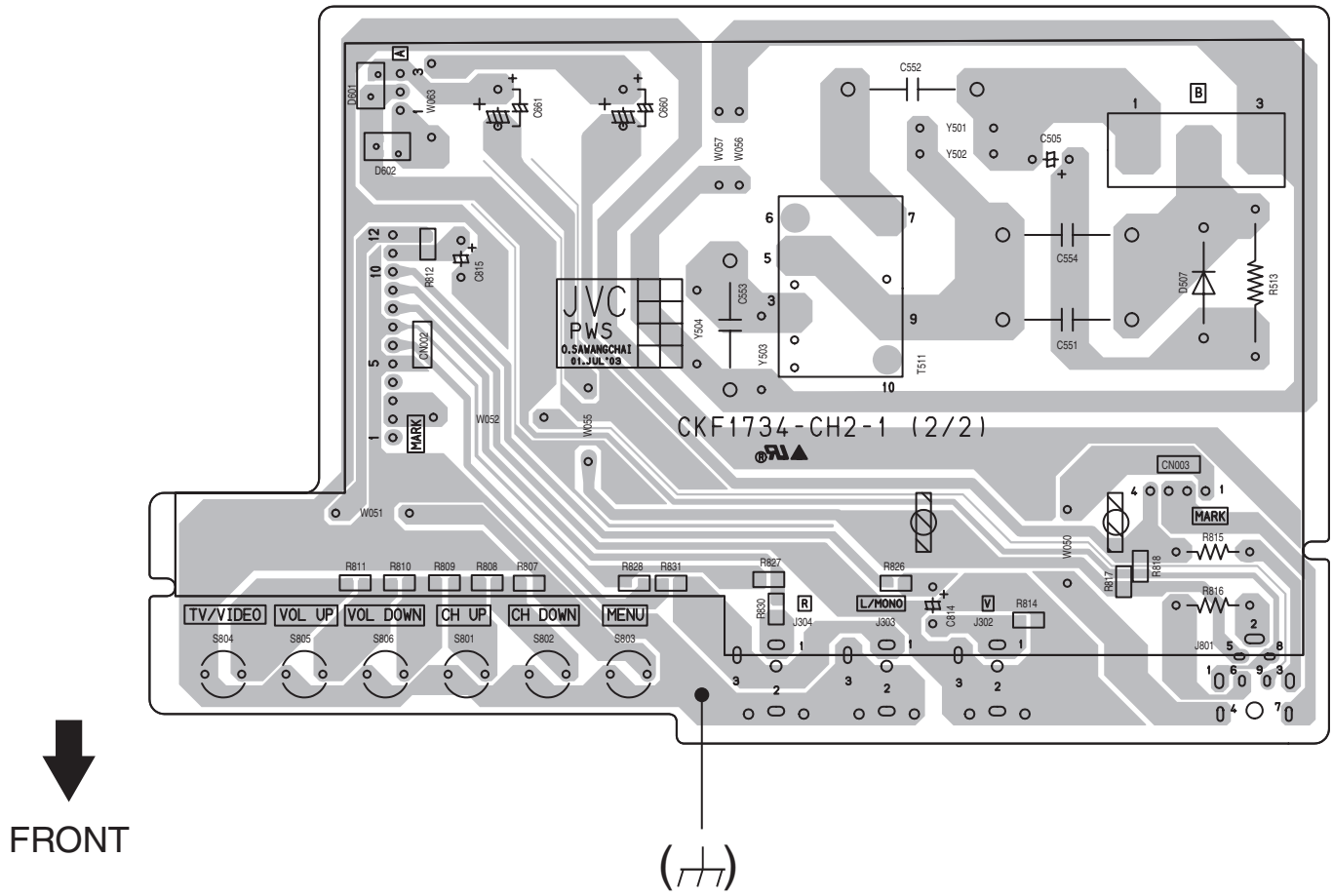


FRONT CONTROL PWB PATTERNS

-FRONT CONTROL (1/2)-



-FRONT CONTROL (2/2)-



VOLTAGE CHART

Note : • Mark * expresses the portion into which a voltage value is changed.

<MAIN PWB>

PIN NO.	VOLTAGE(V)
IC1301	
1	0.8
2	4.9
3	1.6
4	0.0
5	4.9
6	5.0
7	0.4
8	0.0
9	0.6
10	0.0
11	5.0
12	1.5
13	0.0
14	1.7
15	0.0
16	1.6
IC1461	
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	2.0
14	2.0
15	2.7
16	4.5
IC1401	
1	0.5
2	13.5
3	-10.6
4	-13.0
5	0.0
6	14.0
7	0.6
IC1480	
1	2.0
2	3.4
3	3.4
4	0.0
5	2.1
6	2.1
7	3.5
8	8.6
IC1601	
1	4.5
2	1.5
3	1.5
4	0.0
5	2.3
6	2.1
7	0.4
8	0.0
9	0.0
10	4.5
11	4.5
12	2.0
13	0.0
14	0.4
15	0.4
16	0.4
17	0.4
18	0.4
19	0.1
20	0.0
21	0.4
22	5.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	3.8
31	3.8
32	0.0
33	7.9
34	7.0
35	0.0
36	3.7
37	3.7
38	3.8
39	0.0
40	3.8
41	3.8
42	3.8
43	3.8

PIN NO.	VOLTAGE(V)
44	0.0
IC1602	
1	4.3
2	4.3
3	4.4
4	4.3
5	4.4
6	4.4
7	4.3
8	1.3
9	2.4
10	0.0
11	0.3
12	0.3
13	0.0
14	2.7
15	2.0
16	0.0
17	8.7
18	4.3
19	0.5
20	3.4
21	3.5
22	2.9
23	3.2
24	3.2
25	0.0
26	4.3
27	4.3
28	4.3
29	5.1
30	5.1
31	4.3
32	4.3
IC1650	
1	0.0
2	0.0
3	0.0
4	0.0
5	25.9
6	25.9
7	0.0
8	0.0
9	0.0
10	0.5
11	0.5
12	0.5
13	12.9
14	12.9
15	0.6
16	0.0
17	0.0
18	0.0
19	26.8
20	12.8
21	17.0
22	12.9
23	13.0
IC1701	
1	3.2
2	2.0
3	2.7
4	0.0
5	0.0
6	5.0
7	3.3
8	2.7
9	0.0
10	0.0
11	0.0
12	0.0
13	2.3
14	7.9
15	4.9
16	2.9
17	3.8
18	0.0
19	4.0
20	2.0
21	1.4
22	1.4
23	1.8
24	1.8
25	3.8
26	3.8
27	2.0
28	1.8
29	1.8
30	0.0
31	2.2
32	2.4
33	1.5
34	0.4
35	2.6
36	1.9

PIN NO.	VOLTAGE(V)
37	2.3
38	3.0
39	0.0
40	3.6
41	1.5
42	3.4
43	1.9
44	2.5
45	2.6
46	2.5
47	2.6
48	2.5
49	2.2
50	4.2
51	2.1
52	2.1
53	1.9
54	3.3
55	0.0
56	3.3
57	0.0
58	1.6
59	1.6
60	0.0
61	3.3
62	4.9
63	4.9
64	5.0
IC1702	
1	0.0
2	0.0
3	0.0
4	0.0
5	4.9
6	4.9
7	0.0
8	5.1
IC1801	
1	4.7
2	4.1
3	4.7
4	4.1
5	4.7
6	0.0
7	5.1
8	4.1
9	4.7
10	4.1
11	4.7
12	6.9
13	5.0
14	4.2
15	4.2
16	4.7
17	4.1
18	4.2
19	5.4
20	0.0
21	0.0
22	0.0
23	4.7
24	4.0
25	3.2
26	4.0
27	3.8
28	0.0
29	2.7
30	2.1
31	0.0
32	4.6
33	0.0
34	4.8
35	4.0
36	4.0
37	4.7
38	4.2
39	3.3
40	8.6
41	3.2
42	4.2
43	4.7
44	4.1
IC1901	
1	0.6
2	0.0
3	295.8
4	19.6
5	3.0
IC1951	
1 (in)	135.0
2 (out)	21.6
3	0.0

PIN NO.	VOLTAGE(V)
IC1972	
1	3.3
2	0.0
3	0.0
4	1.9
5	6.9
6	0.0
7	6.9
IC1973	
1 (in)	22.9
2 (out)	11.9
3	0.0
IC1974	
1	4.6
2	0.0
3	0.0
4	3.3
5	3.2
6	0.0
7	4.7
IC1975	
1	8.9
2	8.7
3	0.0
4	3.1
TU1001	
1 (AGC)	2.2
2 (BT)	2.4
3 (AS)	0.0
4 (SCL)	2.0
5 (SDA)	2.7
6 (BM)	4.4
7 (5V)	4.5
8 (LOCK)	0.0
9 (32V)	33.7
10 (NC)	0.0
11 (IF)	0.0
Q1101	
E	1.4
C	8.6
B	2.2
Q1106	
E	3.7
C	0.0
B	3.0
Q1108	
E	3.0
C	8.7
B	3.7
Q1150	
E	2.4
C	6.1
B	3.0
Q1301	
E	2.5
C	0.0
B	1.9
Q1302	
E	2.2
C	0.0
B	1.6
Q1303	
E	0.0
C	4.9
B	0.0
Q1304	
E	0.0
C	0.0
B	0.6
Q1480	
E	0.6
C	14.2
B	0.0
Q1521	
S	0.0
G	22.0
D	1.5
Q1522	
E	0.0
C	132.0
B	-0.1
Q1591	
E	134.9
C	0.0
B	134.6
Q1592	
E	0.0
C	4.8
B	0.0
Q1660	
E	0.0
C	18.8
B	0.0

PIN NO.	VOLTAGE(V)
Q1661	
E	0.0
C	0.0
B	0.6
Q1662	
E	0.0
C	0.0
B	-0.5
Q1663	
E	0.0
C	0.0
B	6.3
Q1683	
E	8.7
C	0.2
B	8.7
Q1684	
E	0.4
C	0.0
B	0.0
Q1685	
E	0.0
C	0.0
B	-0.5
Q1686	
E	0.0
C	0.0
B	-0.2
Q1701	
E	3.0
C	3.0
B	2.3
Q1702	
E	3.3
C	0.0
B	3.0
Q1720	
E	5.1
C	0.0
B	4.8
Q1801	
E	0.0
C	0.0
B	-0.2
Q1802	
E	0.0
C	0.0
B	-0.2
Q1803	
E	0.2
C	-0.2
B	0.0
Q1804	
E	4.1
C	8.6
B	4.7
Q1860	
E	2.2
C	8.6
B	2.8
Q1861	
E	7.1
C	1.6
B	6.5
Q1862	
E	7.2
C	1.8
B	6.6
Q1901	
E	20.2
C	66.3
B	20.6
Q1951	
E	27.2
C	7.2
B	27.2
Q1952	
E	0.0
C	0.0
B	0.0
Q1953	
E	0.0
C	23.0
B	0.0
Q1954	
E	0.0
C	8.7
B	0.0
Q1955	
E	0.0
C	27.2
B	0.0

<CRT SOCKET PWB>

PIN NO.	VOLTAGE(V)
IC3101	
1	2.0
2	2.1
3	2.2
4	0.0
5	5.5
6	213.1
7	142.3
8	147.2
9	152.9
Q3101	
E	1.3
C	11.9
B	1.9
Q3102	
E	1.4
C	11.9
B	2.0
Q3103	
E	1.5
C	12.0
B	2.1
Q3104	
E	0.0
C	1.9
B	0.0
Q3105	
E	0.0
C	2.1
B	0.0
Q3106	
E	0.0
C	2.1
B	00
Q3121	
E	0.0
C	201.5
B	-1.4
Q3122	
E	24.0
C	-1.5
B	24.1
Q3123	
E	4.9
C	5.0
B	4.4
Q3204	
E	0.9
C	7.4
B	1.5
Q3205	
E	7.4
C	11.9
B	7.4
Q3206	
E	7.4
C	0.0
B	7.4
Q3209	
E	124.1
C	63.6
B	123.5
Q3210	
E	2.8
C	63.6
B	3.3
Q3251	
E	1.9
C	0.0
B	1.2
Q3252	
E	2.7
C	11.3
B	3.3
Q3253	
E	12.0
C	4.5
B	11.3
Q3261	
E	2.6
C	0.0
B	1.9
Q3262	
E	2.8
C	0.0
B	2.1
Q3263	
E	2.7
C	0.0
B	2.1
Q3264	
E	1.9
C	11.9
B	2.6

PIN NO.	VOLTAGE(V)
Q3265	
E	2.2
C	12.0
B	2.8
Q3266	
E	2.1
C	11.9
B	2.7

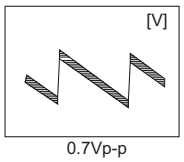
<FRONT PWB>

PIN NO.	VOLTAGE(V)
IC8481	
1	6.4
2	6.4
3	7.5
4	7.5
5	0.0
6	8.2
7	8.1
8	8.6
9	8.6
10	12.0
IC8801	
1	5.1
2	5.1
3	0.0
Q8481	
E	1.3
C	7.6
B	1.9
Q8801	
E	5.5
C	0.0
B	7.7

WAVEFORMS

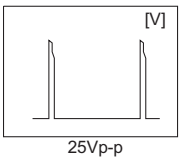
-MAIN PWB-

IC401-1



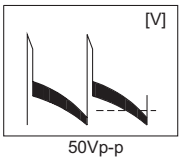
0.7Vp-p

IC401-3



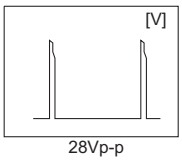
25Vp-p

IC401-5



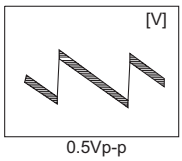
50Vp-p

IC401-6



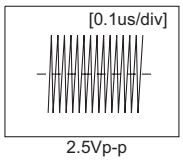
28Vp-p

IC401-7



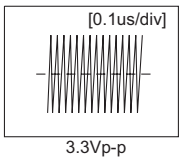
0.5Vp-p

IC601-5



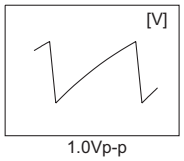
2.5Vp-p

IC601-6



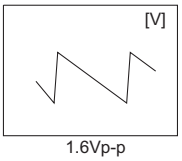
3.3Vp-p

IC701-21



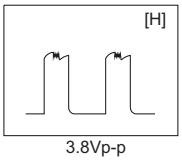
1.0Vp-p

IC701-22



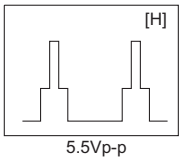
1.6Vp-p

IC701-33



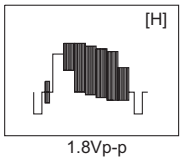
3.8Vp-p

IC701-34



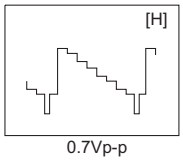
5.5Vp-p

IC701-38



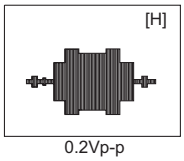
1.8Vp-p

IC701-42



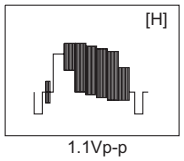
0.7Vp-p

IC701-43



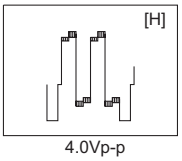
0.2Vp-p

IC701-47



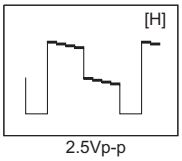
1.1Vp-p

IC701-51



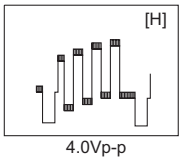
4.0Vp-p

IC701-52



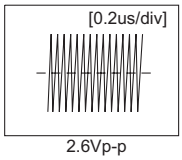
2.5Vp-p

IC701-53



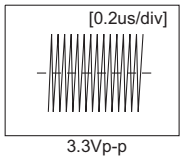
4.0Vp-p

IC701-58



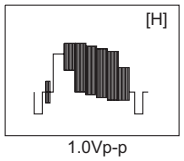
2.6Vp-p

IC701-59



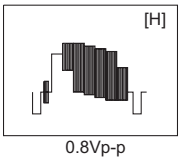
3.3Vp-p

IC801-7



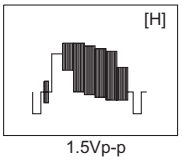
1.0Vp-p

IC801-13



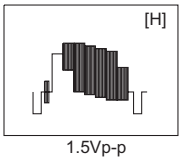
0.8Vp-p

IC801-23



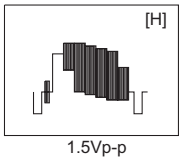
1.5Vp-p

IC801-27



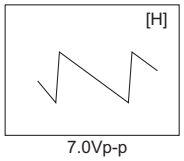
1.5Vp-p

IC801-37



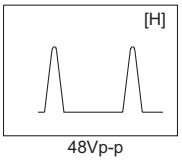
1.5Vp-p

T551-2



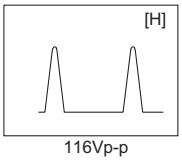
7.0Vp-p

T551-3



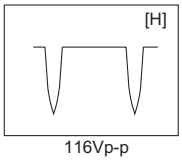
48Vp-p

T551-4



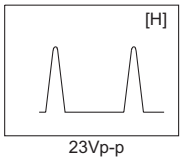
116Vp-p

T551-5



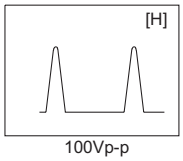
116Vp-p

T551-7



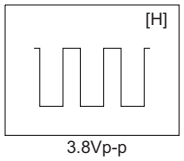
23Vp-p

T551-9



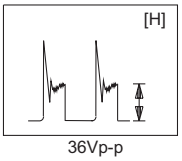
100Vp-p

Q521-B



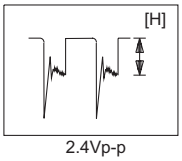
3.8Vp-p

Q521-C



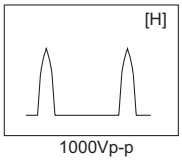
36Vp-p

Q522-B



2.4Vp-p

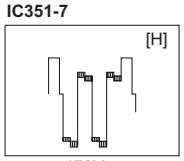
Q522-C



1000Vp-p

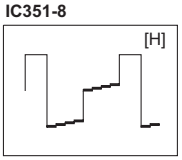
-CRT SOCKET PWB-

IC351-7



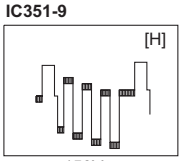
170Vp-p

IC351-8



110Vp-p

IC351-9



150Vp-p